

APPENDIX AQ-1
Detailed calculation inputs, assumptions, and
outputs

Criteria Air Pollutant Emissions

Construction Emissions

Unmitigated	Description	ROG	NOX	PM10	PM2.5	PM10	PM2.5
		lb/day				ton/year	
	Construction Equipment and Vehicles	82	317	50	20	6	2
	ATVs	3.1	3.4	12.6	1.4	1.6	0.2
	Total	85.4	320.3	62.6	20.9	7.8	1.7
	SMAQMD Threshold	N/A	85	80	82	14.6	15
	Threshold Exceeded?	No	Yes	No	No	No	No

Notes:
1. Construction equipment and vehicle emissions modeled in CalEEMod. ATV emissions calculated using CARB OFFROAD.

Operational Emissions

Unmitigated	Description	ROG	NOX	PM10	PM2.5	PM10	PM2.5
		lb/day				ton/year	
	Maximum Daily	2.3	10.5	0.6	0.5	0.02	0.007
	SMAQMD Threshold	N/A	85	80	82	14.6	15
	Threshold Exceeded?	No	No	No	No	No	No

Mitigated	Description	ROG	NOX	PM10	PM2.5	PM10	PM2.5
		lb/day				ton/year	
	Construction Equipment and Vehicles	57	119	54	10	5	1
	ATVs	3.1	3.4	12.6	1.4	1.6	0.2
	Total	60.5	122.1	66.3	11.1	7.1	1.1
	SMAQMD Threshold	N/A	85	80	82	14.6	15
	Threshold Exceeded?	No	Yes	No	No	No	No

Greenhouse Gas Emissions

Construction	
Year	MT CO2e
2026	1814.2
2027	6216.1
2028	3714.9
Total	11,745

Source: Unmitigated CalEEMod run and Gator Exhaust emissions

Operation	
Emissions Source	MT CO2e per year
Mobile	26.49
Area	0.07
Energy	0
Water	0.05
Waste	6.74
Refrig.	0.16
Off-Road	36.44
Stationary	0.19
Total	70.14



Strategic Area Project Health Effects Tool

Strategic Area Location	II. Rancho Cordova	<-- Step 1: Input the area
NOx Emissions	321	<-- Step 2: Input NOx emissions in lbs./day
ROG Emissions	85	<-- Step 3: Input ROG emissions in lbs./day
PM25 Emissions	21	<-- Step 4: Input PM2.5 emissions in lbs./day

PM2.5 Health Endpoint	Age Range ¹	Incidences Across the Reduced Sacramento 4-km Modeling Domain Resulting from Project Emissions (per year) ^{2,5}	Incidences Across the 5-Air-District Region Resulting from Project Emissions (per year) ²	Percent of Background Health Incidences Across the 5-Air-District Region ³	Total Number of Health Incidences Across the 5-Air-District Region (per year) ⁴
		(Mean)	(Mean)		
Respiratory					
Emergency Room Visits, Asthma	0 - 99	1.9	1.8	0.0097%	18419
Hospital Admissions, Asthma	0 - 64	0.12	0.11	0.0062%	1846
Hospital Admissions, All Respiratory	65 - 99	0.76	0.67	0.0034%	19644
Cardiovascular					
Hospital Admissions, All Cardiovascular (less Myocardial Infarctions)	65 - 99	0.42	0.38	0.0016%	24037
Acute Myocardial Infarction, Nonfatal	18 - 24	0.00016	0.00014	0.0038%	4
Acute Myocardial Infarction, Nonfatal	25 - 44	0.014	0.013	0.0043%	308
Acute Myocardial Infarction, Nonfatal	45 - 54	0.036	0.034	0.0046%	741
Acute Myocardial Infarction, Nonfatal	55 - 64	0.058	0.055	0.0044%	1239
Acute Myocardial Infarction, Nonfatal	65 - 99	0.26	0.24	0.0048%	5052
Mortality					
Mortality, All Cause	30 - 99	4.9	4.5	0.010%	44766
Ozone Health Endpoint	Age Range ¹	Incidences Across the Reduced Sacramento 4-km Modeling Domain Resulting from Project Emissions (per year) ^{2,5}	Incidences Across the 5-Air-District Region Resulting from Project Emissions (per year) ²	Percent of Background Health Incidences Across the 5-Air-District Region ³	Total Number of Health Incidences Across the 5-Air-District Region (per year) ⁴
		(Mean)	(Mean)		
Respiratory					
Hospital Admissions, All Respiratory	65 - 99	0.29	0.23	0.0012%	19644
Emergency Room Visits, Asthma	0 - 17	1.1	0.91	0.015%	5859
Emergency Room Visits, Asthma	18 - 99	1.9	1.6	0.013%	12560
Mortality					
Mortality, Non-Accidental	0 - 99	0.18	0.15	0.00051%	30386

- Affected age ranges are shown. Other age ranges are available, but the endpoints and age ranges shown here are the ones used by the USEPA in their health assessments. The age ranges are consistent with the epidemiological study that is the basis of the health function.
- Health effects are shown in terms of incidences of each health endpoint and how it compares to the base (2035 base year health effect incidences, or "background health incidence") values. Health effects are shown for the Reduced Sacramento 4-km Modeling Domain and the 5-Air-District Region.
- The percent of background health incidence uses the mean incidence. The background health incidence is an estimate of the average number of people that are affected by the health endpoint in a given population over a given period of time. In this case, the background incidence rates cover the 5-Air-District Region (estimated 2035 population of 3,271,451 persons). Health incidence rates and other health data are typically collected by the government as well as the World Health Organization. The background incidence rates used here are obtained from BenMAP.
- The total number of health incidences across the 5-Air-District Region is calculated based on the modeling data. The information is presented to assist in providing overall health context.
- The technical specifications and map for the Reduced Sacramento 4-km Modeling Domain are included in Appendix A, Table A-1 and Appendix B, Figure B-2 of the *Guidance to Address the Friant Ranch Ruling for CEQA Projects in the Sac Metro Air District*.
Sac Metro Air District Strategic Area Project Health Effects Tool, version 2, published September 2020

Avoided GHG Emissions by Anticipated Electricity Generation Option

Option 1

Year	SMUD GHG Emission Factor	Avoided GHG Emissions
	lb CO2e/MWh	MT CO2e
2023	260	-
2024	248.2	-
2025	236.4	-
2026	224.5	-
2027	212.7	-
2028	200.9	-
2029	189.1	16,259
2030	177.3	15,242
2031	165.5	14,226
2032	153.6	13,210
2033	141.8	12,194
2034	130.0	11,178
2035	118.2	10,162
2036	106.4	9,145
2037	94.5	8,129
2038	82.7	7,113
2039	70.9	6,097
2040	59.1	5,081
2041	47.3	4,065
2042	35.5	3,048
2043	23.6	2,032
2044	11.8	1,016
2045	0	0

MWh/year

189,557

Option 2

Year	SMUD GHG Emission Factor	Avoided GHG Emissions
	lb CO2e/MWh	MT CO2e
2023	260	-
2024	248.2	-
2025	236.4	-
2026	224.5	-
2027	212.7	-
2028	200.9	-
2029	189.1	16,831
2030	177.3	15,779
2031	165.5	14,727
2032	153.6	13,675
2033	141.8	12,623
2034	130.0	11,571
2035	118.2	10,519
2036	106.4	9,467
2037	94.5	8,415
2038	82.7	7,364
2039	70.9	6,312
2040	59.1	5,260
2041	47.3	4,208
2042	35.5	3,156
2043	23.6	2,104
2044	11.8	1,052
2045	0	0

MWh/year

196,231

SMUD Emission Factors - 2023

Electricity Portfolio	SMUD
Eligible Renewables	45
Coal	0
Large Hydro	32.6
Natural Gas	21.9
Nuclear	0.3
Other	0
Unspecified	0.1
Total	100
Total Renewable	77.6
Total Coal	0
Total "Gas"	22
Emissions Factors	SMUD
lb CO ₂ e/MWh	260
MT CO ₂ e/MWh	0.118

Conversion Factor
0.000453592

Assumes 'unspecified' is combined cycle natural gas generation

Source: SMUD 2023 Power Content Label <https://www.smud.org/SMUDPCL>

SMUD Emission Factor Forecasted

2023 2030
45% 100%

RPS reduces share in other energy sources on a weighted basis from their 2017 contribution to power content label

SMUD - 2023 Power Content Label	2023	2024	2025	2026	2027	2028	2029	2030
RPS	45%	53%	61%	69%	76%	84%	92%	100%
Large Hydro	33%	27.9%	23.3%	18.6%	13.9%	9.3%	4.6%	-0.1%
Natural Gas	22%	18.8%	15.6%	12.5%	9.4%	6.2%	3.1%	0.0%
Nuclear	0.3%	0.3%	0.2%	0.2%	0.1%	0.1%	0.0%	0.0%
Unspecified	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%
Total	100%	100%	100%	100%	100%	100%	100%	100%

Renewable Energy	78%	81%	84%	87%	90%	94%	97%	100%
Non-Renewable	22%	19%	16%	13%	9%	6%	3%	0%
Non-Renewable MT CO2e/MWh	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
MT CO2e/MWh	0.12	0.10	0.08	0.07	0.05	0.03	0.02	0.00
lbs CO2e/MWh	260	222.79	185.58	148.37	111.16	73.95	36.74	-0.47

Conversion Factor	
MT/lbs	
0.000453592	
2204.62	

Energy Calculations

Operational Energy Consumption

Estimated Annual Operational Energy Demand

Conversion Factors			Source: https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/quarterly-fuel-and-energy-report-qtr-2
Sacramento Municipal Utility District (SMUD)	7.532	MMBTU per MWh (or kBTU/kWh)	
Category	Amount	Units	
Diesel (heat content)	5.80	MMBTU/barrel	https://theclimateregistry.org/wp-content/uploads/2024/03/2024-Emission-Factor-Document_FINAL.pdf
Motor Gasoline	5.25	MMBTU/barrel	https://theclimateregistry.org/wp-content/uploads/2024/03/2024-Emission-Factor-Document_FINAL.pdf
Natural Gas	0.1	MMBTU/therm	https://www.epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references
Gallons per Barrel	42	gallons/barrel	https://theclimateregistry.org/wp-content/uploads/2024/03/2024-Emission-Factor-Document_FINAL.pdf

Notes: kWh = kilowatt-hours; kBTU = thousand British thermal unit, MMBTU = million British thermal unit

Water Energy Demand by Land Use (CalEEMod output data)

Land Use	Electricity Intensity: Supply, Treat and Distribute (kWh/Mgal)	Electricity Intensity: Treatment (kWh/Mgal)	Indoor Water Usage (gal/year)	Outdoor Water Usage (gal/year)	Indoor Water Electricity Usage (kWh)	Outdoor Water Electricity Usage (kWh)	Total Water Electricity Usage (kWh)
General Light Industry	1,612	1,519	0	180,000	0	290	290
Total	--	--	-	180,000	-	290	290

Electricity Intensity Factors are CalEEMod defaults.

Operational Equipment

Equipment Type	Annual MT CO2	Fuel Type	Emission Factor	Gallons
Off Highway Trucks	36.32	Diesel	22.45	3,565
Backup Generator	0.19	Diesel	22.45	19
Total				3,584

Construction Energy Consumption

Summary

	Diesel (gallons)	Gasoline (gallons)
Offroad Equip	938,201	0
Onsite Trucks	7,212	0
On-Road Vehicles	72,329	134,866
Off-Road Gators	14,072	0
	1,031,813	134,866

Construction Energy Calculations

Phase	Source	Total Construction MT CO ₂ ^a	Fuel Type	Emission Factor (lb CO ₂ /gallon) ^b	Gallons	MMBTU
Onsite Truck Trip Travel	Onsite Trucks	72.0	Diesel	22.45	7,072	976
Pickup Truck Deliveries	Vendor	310.6	Diesel	22.45	30,490	4,208
Demolition	Offroad Equip	18.4	Diesel	22.45	1,809	250
	Worker	0.4	Gas	18.73	43	5
	Vendor	0.0	Diesel	22.45	-	-
	Hauling	1.9	Diesel	22.45	191	26
Site Preparation	Offroad Equip	91.1	Diesel	22.45	8,946	1,234
	Worker	1.1	Gas	18.73	130	16
	Vendor	0.0	Diesel	22.45	-	-
	Hauling	41.5	Diesel	22.45	4,076	563
Grading/Excavation	Offroad Equip	988.5	Diesel	22.45	97,042	13,392
	Worker	73.7	Gas	18.73	8,667	1,083
	Vendor	0.0	Diesel	22.45	-	-
	Hauling	204.9	Diesel	22.45	20,119	2,776
Building Construction	Offroad Equip	8227.0	Diesel	22.45	807,671	111,459
	Worker	1060.7	Gas	18.73	124,819	15,602
	Vendor	0.0	Diesel	22.45	-	-
	Hauling	176.2	Diesel	22.45	17,294	2,387
Paving	Offroad Equip	51.6	Diesel	22.45	5,068	699
	Worker	3.7	Gas	18.73	433	54
	Vendor	0.0	Diesel	22.45	-	-
	Hauling	1.6	Diesel	22.45	159	22
69 kV Line Construction	Offroad Equip	179.9	Diesel	22.45	17,666	2,438
	Onsite Trucks	1.4	Diesel	22.45	140	19
	Worker	6.6	Gas	18.73	773	97
Total Demand					gallons	MMBTU
					Diesel	1,017,741
					Gasoline	134,866
						135,265
						16,858

Sources:

^a Modeled by AECOM in 2024.

^b U.S. Energy Information Administration released September 18, 2024 (https://www.eia.gov/environment/emissions/co2_vol_mass.php)

Operational Transportation Energy Consumption

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: County
Region: Sacramento
Calendar Year: 2029
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/year for CVMT and EVMT, trips/year for Trips, kWh/year for Energy Consumption, tons/year for Emissions, 1000 gallons/year for Fuel Consumption

	Trips per Year	Percent of Total	Fleet Mix Assigned
Worker	260	82%	41% LDT1 and 41% LDT2
Maintenance	26	8%	
Water Trucks	30	9%	18% HHDT

Project Annual VMT			47596.0		
Project Daily VMT			130.4		
% VMT	Kwh/mile	gal/mile	Project Annual VMT	Project Annual Fuel Consumption (gal)	Project Annual Energy Consumption (kWh)
0.0%		0.243333851	1.2417	0.3022	
90.6%		0.161473621	7765.9792	1254.0008	
4.0%	1.874839429		343.5818		644.1607
5.3%		0.196330225	456.4773	90.9897	
98.5%		0.037945338	19221.1442	729.3528	
0.0%		0.03979862	0.4034	0.0161	
0.0%	0.386082534		170.8775		65.9728
0.6%	0.302029805	0.036077914	121.9348	4.3992	36.8279
96.9%		0.038197648	18912.7943	722.4243	
0.3%		0.027961864	66.7504	1.8665	
1.2%	0.386082534		237.8645		91.8353
1.5%	0.302029805	0.036233901	296.9507	10.7597	89.6880
Total			47596.0000		

Category	Amount	Units
Diesel (heat content)	5.80	MMBtu/barrel
Motor Gasoline	5.25	MMBtu/barrel
Gallons per Barrel	42	gallons/barrel
Source: The Climate Registry. 2023. 2023 Climate Registry Default Emission Factors: Table 2.1 (https://theclimateregistry.org/wp-content/uploads/2022/06/2023-Default-Emission-Factors-Final.pdf)		
Project Mobile Energy		
Gallons/year, Diesel	1,256	Diesel
Gallons/year, Gasoline	1,256	Gasoline
KWh/year, Electricity	802	Electricity
Gallons/year, Gasoline, Plug-in Hybrid	15	Plug-in Hybrid
KWh/year, Electricity, Plug-in Hybrid	127	Plug-in Hybrid
Gallons/year, Gasoline + Hybrid	1,271	Gasoline + Hybrid
KWh/year, EV and Hybrid	926	EV + Hybrid
Gallons/year, Natural Gas	0	Natural Gas

Gator Exhaust Emissions Calculations

Model Output: OFFROAD2021 (v1.0.7) Emissions Inventory
Region Type: County
Region: Sacramento
Calendar Year: 2026
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Year	Horsepower Bin	Fuel	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumption	Total_Activity_hpy	Percent	Total_Population	Horsepower_Hours_hpy
Sacramento		2026 Agricultural - ATVs	Aggregate	Aggregate	Gasoline	0.01163335	0.013844649	0.13834108	0.005901285	1.318017201	0.000447965	0.000412127	1.17237E-05	1.07459E-05	42715.59006	8090.371333	31.01%	138.0145629	1367957.954
Sacramento		2026 Agricultural - ATVs	Aggregate	Aggregate	Diesel	0.000745556	0.000887274	0.0047931	0.003995589	0.667031041	0.000164583	0.000151416	6.08279E-06	5.45812E-06	21696.36568	17487.93396	67.04%	44.76101906	934932.9051
Sacramento		2026 Agricultural - ATVs	Aggregate	Aggregate	Electric	0	0	0	0	0	0	0	0	0	0	0	1.95%	10.32436496	60602.94163
Weighted TPD						0.004107676	0.004888474	0.04611717	0.004506713	0.855919117	0.00024926	0.000229319	7.71364E-06	6.99163E-06					
lb/day						8.215351432	9.776947167	92.2343336	9.017426107	1711.838233	0.498520202	0.458638586	0.015427273	0.013983252	hours per year		26086.86118	193.0999469	
lb/day per vehicle						0.042544556	0.050631537	0.47765075	0.046698232	8.865037307	0.002581669	0.002375136	7.98927E-05	7.24146E-05	annual hours per vehicle		135.0951235		
lb/hr/vehicle						0.114948879	0.136796286	1.29051677	0.126169281	23.95155749	0.006975154	0.006417142	0.000215854	0.00019565	hours per day per vehicle		0.370123626		

Gator Construction Assumptions

Operate during entirety of construction (494 days)
10 vehicles
2 trips per hour for each vehicle
10 work hours per day
Assuming 15 mph and 1 mile per one-way trip, 2.67 operating hours per day per vehicle
Total Hours 49400

Exhaust Emissions									
lb/day	3.069	3.652	34.457	3.389	639.507	0.186	0.171	0.006	0.005
tpy	0.40	0.47	4.48	0.44	83.14	0.02	0.02	0.00	0.00
					MT CO2/year				
					2026	19.4351			
					2027	75.7097			
					2028	48.1526			

10/1/2026	1/1/2027	67
1/1/2027	1/1/2028	261
1/1/2028	8/21/2028	166
		494

Gators or Golf Carts – unpaved roads – estimate 2 trips per hour for each vehicle – assume 10 onsite and round trip is from top to bottom of site – estimated distance is: 10 miles per vehicle

Fugitive Dust Emissions from Gators

Unpaved Road Calculations (EPA AP-42 13.2.2, equation 1a)

$E = k (s/12)^a * (W/3)^b$

E =		site specific emission factor (lb/VMT)
s =	8.5	surface material silt content (%) (AP-42 mean value for construction sites, Table 13.2.2-1)
W	ATV = 0.78	mean vehicle weight (tons) (based on side-by-side UTV)
k (PM10) =	1.5	lb/VMT, AP-42 Table 13.2.2-2
k (PM2.5) =	0.15	lb/VMT, AP-42 Table 13.2.2-2
a =	0.9	constant from AP-42 Table 13.2.2-2
b =	0.45	constant from AP-42 Table 13.2.2-2

Uncontrolled Emissions

	PM10	PM2.5
lb/VMT	0.6009	0.0601
lb/day	64.175	6.417
tpy	8.343	0.834

Notes:

1. 10 vehicles, 1 mile per trip, 2 trips per hour, 10 hours per day
106.8 daily VMT (all vehicles)

Controlled Emissions

	PM10	PM2.5
lb/day	12.42	1.24
tpy	1.61	0.16

Notes:

1. Water 2 times daily and 15 mph speed limit in accordance with SMAQMD fugitive dust BMPs.

2. Limiting speed to 15 mph is 57% reduction per SCAQMD Table IX-A (fugitive dust mitigation measures and control efficiencies for construction traffic)

3. Watering 2 times daily is 55% reduction per SCAQMD Table IX-D (fugitive dust mitigation measures and control efficiencies for construction traffic)

Oveja Ranch Solar - Unmitigated Detailed Report

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5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Oveja Ranch Solar - Unmitigated
Construction Start Date	7/1/2026
Operational Year	2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	37.8
Location	38.492977409335026, -121.30417190542263
County	Sacramento
City	Unincorporated
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	708
EDFZ	13
Electric Utility	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Light Industry	17.4	1000sqft	400	3,600	0.00	—	—	Solar arrays and infrastructure

Other Asphalt Surfaces	2.30	Acre	2.30	0.00	0.00	—	—	Access road
Other Non-Asphalt Surfaces	5.00	Acre	5.00	0.00	0.00	—	—	69kV line

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	68.6	64.2	167	233	0.42	7.33	43.0	50.4	6.66	5.12	11.8	—	48,713	48,713	1.94	0.94	24.1	49,065
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	90.7	82.4	317	346	0.74	14.4	50.0	64.4	13.2	6.35	19.5	—	85,616	85,616	3.73	2.74	1.20	86,363
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	50.2	46.7	128	169	0.32	5.62	28.2	33.8	5.11	3.42	8.53	—	36,819	36,819	1.50	0.75	7.98	37,088
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.16	8.52	23.4	30.8	0.06	1.03	5.14	6.17	0.93	0.62	1.56	—	6,096	6,096	0.25	0.12	1.32	6,140

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.38	1.16	6.46	8.12	0.03	0.22	2.72	2.94	0.21	0.29	0.50	—	3,494	3,494	0.14	0.04	0.53	3,508
2027	68.6	64.2	167	233	0.42	7.33	43.0	50.4	6.66	5.12	11.8	—	48,713	48,713	1.94	0.94	24.1	49,065
2028	68.2	63.7	161	231	0.42	7.01	43.0	50.0	6.36	5.12	11.5	—	48,530	48,530	1.91	0.76	21.8	48,825
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	90.7	82.4	317	346	0.74	14.4	50.0	64.4	13.2	6.35	19.5	—	85,616	85,616	3.73	2.74	1.20	86,363
2027	87.4	79.4	288	333	0.71	12.8	47.3	60.1	11.7	6.06	17.7	—	81,913	81,913	3.55	2.11	1.08	82,630
2028	68.0	63.5	161	224	0.42	7.01	43.0	50.0	6.36	5.12	11.5	—	47,901	47,901	1.94	0.93	0.57	48,228
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	8.21	7.20	37.1	36.9	0.09	1.62	7.93	9.56	1.49	0.95	2.44	—	10,725	10,725	0.49	0.34	2.52	10,841
2027	50.2	46.7	128	169	0.32	5.62	28.2	33.8	5.11	3.42	8.53	—	36,819	36,819	1.50	0.75	7.98	37,088
2028	31.2	29.1	73.8	103	0.19	3.21	17.9	21.1	2.91	2.15	5.07	—	21,995	21,995	0.89	0.42	4.32	22,147
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.50	1.31	6.76	6.74	0.02	0.30	1.45	1.74	0.27	0.17	0.44	—	1,776	1,776	0.08	0.06	0.42	1,795
2027	9.16	8.52	23.4	30.8	0.06	1.03	5.14	6.17	0.93	0.62	1.56	—	6,096	6,096	0.25	0.12	1.32	6,140
2028	5.69	5.31	13.5	18.7	0.03	0.59	3.26	3.85	0.53	0.39	0.92	—	3,642	3,642	0.15	0.07	0.72	3,667

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.69	2.31	10.5	14.5	0.05	0.53	0.10	0.62	0.50	0.02	0.53	11.6	5,702	5,714	1.39	0.06	1.29	5,768

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.66	2.28	10.5	14.3	0.05	0.53	0.10	0.62	0.50	0.02	0.53	11.6	5,693	5,704	1.40	0.06	0.95	5,758
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.27	0.25	0.51	0.92	< 0.005	0.02	0.09	0.11	0.01	0.02	0.04	11.6	377	388	1.18	0.02	1.09	424
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.05	0.05	0.09	0.17	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	1.93	62.3	64.3	0.20	< 0.005	0.18	70.1

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.02	0.15	0.42	< 0.005	< 0.005	0.10	0.10	< 0.005	0.02	0.03	—	162	162	0.01	0.01	0.35	167
Area	0.16	0.16	< 0.005	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.64	0.64	< 0.005	< 0.005	—	0.65
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.30	0.30	< 0.005	< 0.005	—	0.30
Waste	—	—	—	—	—	—	—	—	—	—	—	11.6	0.00	11.6	1.16	0.00	—	40.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.94	0.94
Off-Road	2.06	1.73	8.29	11.6	0.05	0.30	—	0.30	0.27	—	0.27	—	5,337	5,337	0.22	0.04	—	5,356
Stationary	0.43	0.39	2.05	2.31	< 0.005	0.23	0.00	0.23	0.23	0.00	0.23	0.00	201	201	0.01	< 0.005	0.00	202
Total	2.69	2.31	10.5	14.5	0.05	0.53	0.10	0.62	0.50	0.02	0.53	11.6	5,702	5,714	1.39	0.06	1.29	5,768
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.03	0.02	0.16	0.32	< 0.005	< 0.005	0.10	0.10	< 0.005	0.02	0.03	—	153	153	0.01	0.01	0.01	158
Area	0.13	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.30	0.30	< 0.005	< 0.005	—	0.30
Waste	—	—	—	—	—	—	—	—	—	—	—	11.6	0.00	11.6	1.16	0.00	—	40.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.94	0.94
Off-Road	2.06	1.73	8.29	11.6	0.05	0.30	—	0.30	0.27	—	0.27	—	5,337	5,337	0.22	0.04	—	5,356
Stationary	0.43	0.39	2.05	2.31	< 0.005	0.23	0.00	0.23	0.23	0.00	0.23	0.00	201	201	0.01	< 0.005	0.00	202
Total	2.66	2.28	10.5	14.3	0.05	0.53	0.10	0.62	0.50	0.02	0.53	11.6	5,693	5,704	1.40	0.06	0.95	5,758
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.02	0.15	0.32	< 0.005	< 0.005	0.09	0.10	< 0.005	0.02	0.03	—	155	155	0.01	0.01	0.15	160
Area	0.15	0.15	< 0.005	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.44	0.44	< 0.005	< 0.005	—	0.44
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.30	0.30	< 0.005	< 0.005	—	0.30
Waste	—	—	—	—	—	—	—	—	—	—	—	11.6	0.00	11.6	1.16	0.00	—	40.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.94	0.94
Off-Road	0.08	0.07	0.34	0.48	< 0.005	0.01	—	0.01	0.01	—	0.01	—	219	219	0.01	< 0.005	—	220
Stationary	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	1.15	1.15	< 0.005	< 0.005	0.00	1.15
Total	0.27	0.25	0.51	0.92	< 0.005	0.02	0.09	0.11	0.01	0.02	0.04	11.6	377	388	1.18	0.02	1.09	424
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	< 0.005	0.03	0.06	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	25.7	25.7	< 0.005	< 0.005	0.03	26.5
Area	0.03	0.03	< 0.005	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.07	0.07	< 0.005	< 0.005	—	0.07
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.05	0.05	< 0.005	< 0.005	—	0.05
Waste	—	—	—	—	—	—	—	—	—	—	—	1.93	0.00	1.93	0.19	0.00	—	6.74

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16	0.16
Off-Road	0.02	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.3	36.3	< 0.005	< 0.005	—	36.4
Stationary	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	0.19	0.19	< 0.005	< 0.005	0.00	0.19
Total	0.05	0.05	0.09	0.17	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	1.93	62.3	64.3	0.20	< 0.005	0.18	70.1

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.87	3.24	21.1	25.3	0.10	0.66	—	0.66	0.61	—	0.61	—	10,154	10,154	0.41	0.08	—	10,189
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.23	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	111	111	< 0.005	< 0.005	—	112

Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.4	18.4	< 0.005	< 0.005	—	18.5
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.07	0.83	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	198	198	< 0.005	0.01	0.02	200
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.12	0.02	1.89	0.67	0.01	0.02	0.28	0.30	0.02	0.08	0.10	—	1,073	1,073	0.10	0.17	0.06	1,127
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.22	2.22	< 0.005	< 0.005	< 0.005	2.25
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.8	11.8	< 0.005	< 0.005	0.01	12.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.37
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.95	1.95	< 0.005	< 0.005	< 0.005	2.05

3.3. Site Preparation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	17.4	14.6	112	93.9	0.24	5.48	—	5.48	5.04	—	5.04	—	25,111	25,111	1.02	0.20	—	25,197
Dust From Material Movement	—	—	—	—	—	—	0.79	0.79	—	0.09	0.09	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	0.32	2.46	2.06	0.01	0.12	—	0.12	0.11	—	0.11	—	550	550	0.02	< 0.005	—	552
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.07	0.06	0.45	0.38	< 0.005	0.02	—	0.02	0.02	—	0.02	—	91.1	91.1	< 0.005	< 0.005	—	91.4
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.10	1.24	0.00	0.00	0.30	0.30	0.00	0.07	0.07	—	297	297	0.01	0.01	0.03	300
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	1.27	0.25	20.2	7.18	0.07	0.21	3.04	3.25	0.21	0.81	1.03	—	11,441	11,441	1.02	1.85	0.61	12,019
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.67	6.67	< 0.005	< 0.005	0.01	6.76
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.01	0.43	0.16	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	251	251	0.02	0.04	0.22	264
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.10	1.10	< 0.005	< 0.005	< 0.005	1.12
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.08	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	41.5	41.5	< 0.005	0.01	0.04	43.7

3.5. 69 kV Line Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.32	1.11	6.37	7.42	0.03	0.22	—	0.22	0.21	—	0.21	—	3,334	3,334	0.14	0.03	—	3,345
Onsite truck	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	2.60	2.60	< 0.005	0.26	0.26	—	26.5	26.5	< 0.005	< 0.005	0.05	27.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.32	1.11	6.37	7.42	0.03	0.22	—	0.22	0.21	—	0.21	—	3,334	3,334	0.14	0.03	—	3,345
Onsite truck	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	2.60	2.60	< 0.005	0.26	0.26	—	26.4	26.4	< 0.005	< 0.005	< 0.005	27.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.43	0.36	2.08	2.42	0.01	0.07	—	0.07	0.07	—	0.07	—	1,087	1,087	0.04	0.01	—	1,091
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.76	0.76	< 0.005	0.08	0.08	—	8.62	8.62	< 0.005	< 0.005	0.01	9.07
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.38	0.44	< 0.005	0.01	—	0.01	0.01	—	0.01	—	180	180	0.01	< 0.005	—	181
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.14	0.14	< 0.005	0.01	0.01	—	1.43	1.43	< 0.005	< 0.005	< 0.005	1.50
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.68	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	134	134	< 0.005	< 0.005	0.48	135
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.50	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	119	119	< 0.005	< 0.005	0.01	120
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	39.7	39.7	< 0.005	< 0.005	0.07	40.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.57	6.57	< 0.005	< 0.005	0.01	6.66
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Onsite Truck Trip Travel (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.06	0.04	1.08	0.54	< 0.005	< 0.005	37.1	37.1	< 0.005	3.71	3.71	—	329	329	0.02	0.05	0.02	344
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.19	0.09	< 0.005	< 0.005	5.99	5.99	< 0.005	0.60	0.60	—	59.4	59.4	< 0.005	0.01	0.06	62.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	1.09	1.09	< 0.005	0.11	0.11	—	9.83	9.83	< 0.005	< 0.005	0.01	10.3
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Onsite Truck Trip Travel (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.06	0.04	0.99	0.46	< 0.005	< 0.005	37.1	37.1	< 0.005	3.71	3.71	—	324	324	0.02	0.05	0.73	339
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.06	0.04	1.02	0.52	< 0.005	< 0.005	37.1	37.1	< 0.005	3.71	3.71	—	323	323	0.02	0.05	0.02	338
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.04	0.03	0.72	0.35	< 0.005	< 0.005	23.8	23.8	< 0.005	2.37	2.37	—	231	231	0.02	0.03	0.22	242
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	4.34	4.34	< 0.005	0.43	0.43	—	38.2	38.2	< 0.005	0.01	0.04	40.1
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Onsite Truck Trip Travel (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.06	0.04	0.93	0.44	< 0.005	< 0.005	37.1	37.1	< 0.005	3.71	3.71	—	316	316	0.02	0.05	0.66	331
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.06	0.03	0.96	0.50	< 0.005	< 0.005	37.1	37.1	< 0.005	3.71	3.71	—	316	316	0.02	0.05	0.02	330
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.03	0.02	0.43	0.21	< 0.005	< 0.005	15.2	15.2	< 0.005	1.52	1.52	—	145	145	0.01	0.02	0.13	151
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	2.78	2.78	< 0.005	0.28	0.28	—	23.9	23.9	< 0.005	< 0.005	0.02	25.1

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Pickup Truck Deliveries (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.16	0.03	2.52	0.90	0.01	0.03	0.38	0.41	0.03	0.10	0.13	—	1,430	1,430	0.13	0.23	0.08	1,502
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.01	0.44	0.16	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	257	257	0.02	0.04	0.23	271
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.08	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	42.6	42.6	< 0.005	0.01	0.04	44.8

3.15. Pickup Truck Deliveries (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.15	0.03	2.20	0.87	0.01	0.03	0.38	0.41	0.03	0.10	0.13	—	1,396	1,396	0.12	0.22	2.71	1,468
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.15	0.03	2.38	0.87	0.01	0.03	0.38	0.41	0.03	0.10	0.13	—	1,396	1,396	0.12	0.22	0.07	1,465
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.11	0.02	1.67	0.62	0.01	0.02	0.27	0.29	0.02	0.07	0.09	—	997	997	0.08	0.16	0.83	1,047
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	< 0.005	0.30	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	165	165	0.01	0.03	0.14	173

3.17. Pickup Truck Deliveries (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.14	0.03	2.08	0.84	0.01	0.03	0.38	0.41	0.03	0.10	0.13	—	1,357	1,357	0.11	0.21	2.47	1,426
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.14	0.03	2.25	0.85	0.01	0.03	0.38	0.41	0.03	0.10	0.13	—	1,357	1,357	0.11	0.21	0.06	1,424
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.06	0.01	1.01	0.39	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	622	622	0.05	0.10	0.49	652
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.18	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	103	103	0.01	0.02	0.08	108

3.19. Grading/Excavation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	18.0	15.1	115	97.6	0.25	5.60	—	5.60	5.16	—	5.16	—	26,528	26,528	1.08	0.22	—	26,619
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.78	2.33	17.8	15.1	0.04	0.87	—	0.87	0.80	—	0.80	—	4,101	4,101	0.17	0.03	—	4,115
Dust From Material Movement	—	—	—	—	—	—	0.12	0.12	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.43	3.26	2.75	0.01	0.16	—	0.16	0.15	—	0.15	—	679	679	0.03	0.01	—	681
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.73	0.71	0.65	8.12	0.00	0.00	1.98	1.98	0.00	0.46	0.46	—	1,937	1,937	0.04	0.08	0.20	1,962
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.62	0.12	9.78	3.48	0.03	0.10	1.47	1.57	0.10	0.39	0.50	—	5,542	5,542	0.49	0.90	0.30	5,822
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.09	1.28	0.00	0.00	0.30	0.30	0.00	0.07	0.07	—	307	307	0.01	0.01	0.52	312
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.10	0.02	1.48	0.54	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	857	857	0.08	0.14	0.76	901
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.23	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	50.9	50.9	< 0.005	< 0.005	0.09	51.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	< 0.005	0.27	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	142	142	0.01	0.02	0.13	149

3.21. Grading/Excavation (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	17.6	14.8	111	96.8	0.25	5.36	—	5.36	4.93	—	4.93	—	26,533	26,533	1.08	0.22	—	26,624
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.24	1.04	7.79	6.82	0.02	0.38	—	0.38	0.35	—	0.35	—	1,869	1,869	0.08	0.02	—	1,876
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.42	1.24	< 0.005	0.07	—	0.07	0.06	—	0.06	—	309	309	0.01	< 0.005	—	311
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.70	0.62	0.65	7.62	0.00	0.00	1.98	1.98	0.00	0.46	0.46	—	1,903	1,903	0.04	0.08	0.18	1,928
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.58	0.12	9.23	3.38	0.03	0.10	1.47	1.57	0.10	0.39	0.50	—	5,408	5,408	0.46	0.86	0.27	5,676
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.55	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	138	138	< 0.005	0.01	0.22	139
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	0.01	0.64	0.24	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	—	381	381	0.03	0.06	0.32	400
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.8	22.8	< 0.005	< 0.005	0.04	23.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.12	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	63.1	63.1	0.01	0.01	0.05	66.3

3.23. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	67.7	63.3	178	205	0.40	8.42	—	8.42	7.66	—	7.66	—	40,277	40,277	1.63	0.33	—	40,416
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.97	3.72	10.4	12.0	0.02	0.49	—	0.49	0.45	—	0.45	—	2,365	2,365	0.10	0.02	—	2,373
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.73	0.68	1.90	2.19	< 0.005	0.09	—	0.09	0.08	—	0.08	—	391	391	0.02	< 0.005	—	393
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.97	1.91	1.76	21.8	0.00	0.00	5.31	5.31	0.00	1.25	1.25	—	5,199	5,199	0.12	0.21	0.54	5,266
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.10	0.02	1.58	0.56	0.01	0.02	0.24	0.25	0.02	0.06	0.08	—	894	894	0.08	0.14	0.05	939
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.09	1.30	0.00	0.00	0.30	0.30	0.00	0.07	0.07	—	313	313	0.01	0.01	0.53	318
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.09	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	52.5	52.5	< 0.005	0.01	0.05	55.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.24	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	51.9	51.9	< 0.005	< 0.005	0.09	52.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.69	8.69	< 0.005	< 0.005	0.01	9.13

3.25. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	66.3	62.1	161	203	0.40	7.28	—	7.28	6.61	—	6.61	—	40,372	40,372	1.64	0.33	—	40,510
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	66.3	62.1	161	203	0.40	7.28	—	7.28	6.61	—	6.61	—	40,372	40,372	1.64	0.33	—	40,510
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	47.3	44.3	115	145	0.29	5.20	—	5.20	4.72	—	4.72	—	28,837	28,837	1.17	0.23	—	28,936
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	8.64	8.09	21.0	26.5	0.05	0.95	—	0.95	0.86	—	0.86	—	4,774	4,774	0.19	0.04	—	4,791

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.07	2.04	1.33	27.9	0.00	0.00	5.31	5.31	0.00	1.25	1.25	—	5,749	5,749	0.08	0.20	19.0	5,830
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.09	0.02	1.38	0.54	0.01	0.02	0.24	0.25	0.02	0.06	0.08	—	872	872	0.07	0.14	1.69	917
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.89	1.66	1.73	20.4	0.00	0.00	5.31	5.31	0.00	1.25	1.25	—	5,107	5,107	0.12	0.21	0.49	5,174
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.09	0.02	1.49	0.54	0.01	0.02	0.24	0.25	0.02	0.06	0.08	—	872	872	0.07	0.14	0.04	916
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.34	1.19	1.09	15.0	0.00	0.00	3.70	3.70	0.00	0.87	0.87	—	3,743	3,743	0.07	0.14	5.86	3,793
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.07	0.01	1.04	0.39	< 0.005	0.01	0.17	0.18	0.01	0.04	0.06	—	623	623	0.05	0.10	0.52	654
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.22	0.20	2.73	0.00	0.00	0.68	0.68	0.00	0.16	0.16	—	620	620	0.01	0.02	0.97	628
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.19	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	103	103	0.01	0.02	0.09	108

3.27. Building Construction (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	65.9	61.8	155	203	0.40	6.97	—	6.97	6.32	—	6.32	—	40,377	40,377	1.64	0.33	—	40,516
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	65.9	61.8	155	203	0.40	6.97	—	6.97	6.32	—	6.32	—	40,377	40,377	1.64	0.33	—	40,516
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	30.2	28.3	71.1	92.8	0.18	3.19	—	3.19	2.89	—	2.89	—	18,490	18,490	0.75	0.15	—	18,553
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	5.51	5.17	13.0	16.9	0.03	0.58	—	0.58	0.53	—	0.53	—	3,061	3,061	0.12	0.02	—	3,072
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	2.00	1.80	1.15	26.2	0.00	0.00	5.31	5.31	0.00	1.25	1.25	—	5,631	5,631	0.07	0.03	17.2	5,660
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.09	0.02	1.30	0.53	0.01	0.02	0.24	0.25	0.02	0.06	0.08	—	848	848	0.07	0.13	1.54	891
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.83	1.62	1.54	19.3	0.00	0.00	5.31	5.31	0.00	1.25	1.25	—	5,002	5,002	0.10	0.21	0.45	5,069
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.09	0.02	1.40	0.53	0.01	0.02	0.24	0.25	0.02	0.06	0.08	—	848	848	0.07	0.13	0.04	890
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.83	0.74	0.61	9.02	0.00	0.00	2.37	2.37	0.00	0.56	0.56	—	2,351	2,351	0.04	0.09	3.40	2,382
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	0.01	0.63	0.24	< 0.005	0.01	0.11	0.11	0.01	0.03	0.04	—	388	388	0.03	0.06	0.31	408
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.11	1.65	0.00	0.00	0.43	0.43	0.00	0.10	0.10	—	389	389	0.01	0.02	0.56	394
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.11	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	64.3	64.3	0.01	0.01	0.05	67.5

3.29. Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	2.87	2.40	20.4	21.6	0.06	0.61	—	0.61	0.56	—	0.56	—	5,690	5,690	0.23	0.05	—	5,710
Paving	0.30	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.16	0.13	1.12	1.18	< 0.005	0.03	—	0.03	0.03	—	0.03	—	312	312	0.01	< 0.005	—	313
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.03	0.02	0.20	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	51.6	51.6	< 0.005	< 0.005	—	51.8
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.15	0.13	1.66	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	395	395	0.01	0.02	0.04	400
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	< 0.005	0.32	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	179	179	0.02	0.03	0.01	188
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.2	22.2	< 0.005	< 0.005	0.04	22.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.80	9.80	< 0.005	< 0.005	0.01	10.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.68	3.68	< 0.005	< 0.005	0.01	3.73
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.62	1.62	< 0.005	< 0.005	< 0.005	1.71

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.10	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.03	0.03	< 0.005	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.64	0.64	< 0.005	< 0.005	—	0.65
Total	0.16	0.16	< 0.005	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.64	0.64	< 0.005	< 0.005	—	0.65
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.10	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.13	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Product	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	< 0.005	< 0.005	< 0.005	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.07	0.07	< 0.005	< 0.005	—	0.07
Total	0.03	0.03	< 0.005	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.07	0.07	< 0.005	< 0.005	—	0.07

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	0.30	0.30	< 0.005	< 0.005	—	0.30
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.30	0.30	< 0.005	< 0.005	—	0.30
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	0.30	0.30	< 0.005	< 0.005	—	0.30
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.30	0.30	< 0.005	< 0.005	—	0.30
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	0.05	0.05	< 0.005	< 0.005	—	0.05
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.05	0.05	< 0.005	< 0.005	—	0.05

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	11.6	0.00	11.6	1.16	0.00	—	40.7

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	11.6	0.00	11.6	1.16	0.00	—	40.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	11.6	0.00	11.6	1.16	0.00	—	40.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	11.6	0.00	11.6	1.16	0.00	—	40.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	1.93	0.00	1.93	0.19	0.00	—	6.74
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1.93	0.00	1.93	0.19	0.00	—	6.74

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.94	0.94
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.94	0.94
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.94	0.94
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.94	0.94
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16	0.16
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16	0.16

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-High way	2.06	1.73	8.29	11.6	0.05	0.30	—	0.30	0.27	—	0.27	—	5,337	5,337	0.22	0.04	—	5,356
Total	2.06	1.73	8.29	11.6	0.05	0.30	—	0.30	0.27	—	0.27	—	5,337	5,337	0.22	0.04	—	5,356
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-High way Trucks	2.06	1.73	8.29	11.6	0.05	0.30	—	0.30	0.27	—	0.27	—	5,337	5,337	0.22	0.04	—	5,356
Total	2.06	1.73	8.29	11.6	0.05	0.30	—	0.30	0.27	—	0.27	—	5,337	5,337	0.22	0.04	—	5,356
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-High way Trucks	0.02	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.3	36.3	< 0.005	< 0.005	—	36.4
Total	0.02	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.3	36.3	< 0.005	< 0.005	—	36.4

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emerg ency Generat or	0.43	0.39	2.05	2.31	< 0.005	0.23	0.00	0.23	0.23	0.00	0.23	0.00	201	201	0.01	< 0.005	0.00	202
Total	0.43	0.39	2.05	2.31	< 0.005	0.23	0.00	0.23	0.23	0.00	0.23	0.00	201	201	0.01	< 0.005	0.00	202
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Emergence Generator	0.43	0.39	2.05	2.31	< 0.005	0.23	0.00	0.23	0.23	0.00	0.23	0.00	201	201	0.01	< 0.005	0.00	202
Total	0.43	0.39	2.05	2.31	< 0.005	0.23	0.00	0.23	0.23	0.00	0.23	0.00	201	201	0.01	< 0.005	0.00	202
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	0.19	0.19	< 0.005	< 0.005	0.00	0.19
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	0.19	0.19	< 0.005	< 0.005	0.00	0.19

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetati	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	10/1/2026	10/6/2026	5.00	4.00	—
Site Preparation	Site Preparation	10/1/2026	10/12/2026	5.00	8.00	—
69 kV Line Construction	Site Preparation	7/1/2026	12/14/2026	5.00	119	—
Onsite Truck Trip Travel	Site Preparation	10/1/2026	8/21/2028	5.00	493	—
Pickup Truck Deliveries	Site Preparation	10/1/2026	8/21/2028	5.00	493	—
Grading/Excavation	Grading	10/14/2026	2/5/2027	5.00	83.0	—
Building Construction	Building Construction	12/2/2026	8/21/2028	5.00	449	—
Paving	Paving	10/1/2026	10/28/2026	5.00	20.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Average	1.00	10.0	200	0.38
Demolition	Rough Terrain Forklifts	Diesel	Average	1.00	10.0	300	0.40
Demolition	Generator Sets	Diesel	Average	1.00	24.0	35.0	0.74
Demolition	Off-Highway Trucks	Diesel	Average	4.00	10.0	400	0.38
Site Preparation	Off-Highway Trucks	Diesel	Average	6.00	10.0	400	0.38
Site Preparation	Excavators	Diesel	Average	1.00	10.0	200	0.38
Site Preparation	Excavators	Diesel	Average	3.00	10.0	108	0.38
Site Preparation	Rough Terrain Forklifts	Diesel	Average	1.00	10.0	300	0.40

Site Preparation	Generator Sets	Diesel	Average	2.00	24.0	35.0	0.74
Site Preparation	Graders	Diesel	Average	2.00	10.0	200	0.41
Site Preparation	Plate Compactors	Diesel	Average	2.00	10.0	6.00	0.43
Site Preparation	Pumps	Diesel	Average	4.00	10.0	15.0	0.74
Site Preparation	Rollers	Diesel	Average	3.00	10.0	30.0	0.38
Site Preparation	Rubber Tired Loaders	Diesel	Average	3.00	10.0	75.0	0.36
Site Preparation	Skid Steer Loaders	Diesel	Average	5.00	10.0	75.0	0.37
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	1.00	10.0	300	0.37
Site Preparation	Trenchers	Diesel	Average	2.00	10.0	40.0	0.50
Site Preparation	Crawler Tractors	Diesel	Average	1.00	10.0	250	0.43
Site Preparation	Off-Highway Trucks	Diesel	Average	2.00	2.00	350	0.38
69 kV Line Construction	Off-Highway Trucks	Diesel	Average	2.00	10.0	376	0.38
Grading/Excavation	Off-Highway Trucks	Diesel	Average	6.00	10.0	400	0.38
Grading/Excavation	Excavators	Diesel	Average	1.00	10.0	200	0.38
Grading/Excavation	Excavators	Diesel	Average	3.00	10.0	108	0.38
Grading/Excavation	Rough Terrain Forklifts	Diesel	Average	1.00	10.0	300	0.40
Grading/Excavation	Generator Sets	Diesel	Average	2.00	24.0	35.0	0.74
Grading/Excavation	Graders	Diesel	Average	2.00	10.0	200	0.41
Grading/Excavation	Plate Compactors	Diesel	Average	6.00	10.0	6.00	0.43
Grading/Excavation	Pumps	Diesel	Average	4.00	10.0	15.0	0.74
Grading/Excavation	Rollers	Diesel	Average	3.00	10.0	30.0	0.38
Grading/Excavation	Rubber Tired Loaders	Diesel	Average	3.00	10.0	75.0	0.36
Grading/Excavation	Skid Steer Loaders	Diesel	Average	5.00	10.0	75.0	0.37
Grading/Excavation	Tractors/Loaders/Back hoes	Diesel	Average	2.00	10.0	300	0.37
Grading/Excavation	Trenchers	Diesel	Average	2.00	10.0	40.0	0.50
Grading/Excavation	Crawler Tractors	Diesel	Average	1.00	10.0	250	0.43

Grading/Excavation	Off-Highway Trucks	Diesel	Average	2.00	2.00	350	0.38
Building Construction	Aerial Lifts	Diesel	Average	3.00	10.0	84.0	0.31
Building Construction	Bore/Drill Rigs	Diesel	Average	5.00	11.0	70.0	0.50
Building Construction	Cement and Mortar Mixers	Electric	Average	1.00	10.0	10.0	0.56
Building Construction	Concrete/Industrial Saws	Gasoline	Average	1.00	10.0	10.0	0.78
Building Construction	Cranes	Diesel	Average	1.00	10.0	300	0.29
Building Construction	Off-Highway Trucks	Diesel	Average	10.0	10.0	400	0.38
Building Construction	Excavators	Diesel	Average	1.00	10.0	200	0.38
Building Construction	Excavators	Diesel	Average	3.00	10.0	108	0.38
Building Construction	Rough Terrain Forklifts	Diesel	Average	1.00	10.0	300	0.40
Building Construction	Generator Sets	Diesel	Average	10.0	12.0	35.0	0.74
Building Construction	Graders	Diesel	Average	2.00	10.0	200	0.41
Building Construction	Plate Compactors	Diesel	Average	10.0	10.0	6.00	0.43
Building Construction	Pumps	Diesel	Average	4.00	10.0	15.0	0.74
Building Construction	Rollers	Diesel	Average	3.00	10.0	20.0	0.38
Building Construction	Rubber Tired Loaders	Diesel	Average	3.00	10.0	75.0	0.36
Building Construction	Skid Steer Loaders	Diesel	Average	5.00	10.0	75.0	0.37
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	1.00	10.0	300	0.37
Building Construction	Trenchers	Diesel	Average	2.00	10.0	40.0	0.50
Building Construction	Welders	Diesel	Average	2.00	10.0	46.0	0.45
Building Construction	Crawler Tractors	Diesel	Average	1.00	10.0	250	0.43
Building Construction	Air Compressors	Diesel	Average	1.00	10.0	140	0.48
Building Construction	Off-Highway Trucks	Diesel	Average	2.00	2.00	350	0.38
Paving	Off-Highway Trucks	Diesel	Average	1.00	10.0	400	0.38
Paving	Excavators	Diesel	Average	1.00	10.0	200	0.38
Paving	Generator Sets	Diesel	Average	2.00	24.0	35.0	0.74

Paving	Graders	Diesel	Average	1.00	10.0	200	0.41
Paving	Paving Equipment	Diesel	Average	1.00	10.0	89.0	0.36
Paving	Rollers	Diesel	Average	1.00	10.0	30.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	20.0	14.3	LDA,LDT1,LDT2
Demolition	Vendor	—	8.80	HHDT,MHDT
Demolition	Hauling	6.00	50.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	30.0	14.3	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00	8.80	HHDT,MHDT
Site Preparation	Hauling	64.0	50.0	HHDT
Site Preparation	Onsite truck	0.00	0.00	HHDT
Grading/Excavation	—	—	—	—
Grading/Excavation	Worker	196	14.3	LDA,LDT1,LDT2
Grading/Excavation	Vendor	0.00	8.80	HHDT,MHDT
Grading/Excavation	Hauling	31.0	50.0	HHDT
Grading/Excavation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	526	14.3	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	8.80	HHDT,MHDT
Building Construction	Hauling	5.00	50.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT

Paving	—	—	—	—
Paving	Worker	40.0	14.3	LDA,LDT1,LDT2
Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	1.00	50.0	HHDT
Paving	Onsite truck	—	—	HHDT
69 kV Line Construction	—	—	—	—
69 kV Line Construction	Worker	12.0	14.3	LDA,LDT1,LDT2
69 kV Line Construction	Vendor	—	8.80	HHDT,MHDT
69 kV Line Construction	Hauling	0.00	20.0	HHDT
69 kV Line Construction	Onsite truck	1.00	7.00	HHDT
Onsite Truck Trip Travel	—	—	—	—
Onsite Truck Trip Travel	Worker	0.00	14.3	LDA,LDT1,LDT2
Onsite Truck Trip Travel	Vendor	—	8.80	HHDT,MHDT
Onsite Truck Trip Travel	Hauling	0.00	20.0	HHDT
Onsite Truck Trip Travel	Onsite truck	100	1.00	MHDT
Pickup Truck Deliveries	—	—	—	—
Pickup Truck Deliveries	Worker	0.00	14.3	LDA,LDT1,LDT2
Pickup Truck Deliveries	Vendor	—	8.80	HHDT,MHDT
Pickup Truck Deliveries	Hauling	8.00	50.0	HHDT
Pickup Truck Deliveries	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
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5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	—	—
Site Preparation	—	4,350	15.0	0.00	—
Grading/Excavation	19,996	3,155	30.0	0.00	—
Paving	0.00	0.00	0.00	0.00	2.30

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	0%
Other Asphalt Surfaces	2.30	100%
Other Non-Asphalt Surfaces	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
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2026	41.8	375	0.01	< 0.005
2027	41.8	375	0.01	< 0.005
2028	41.8	375	0.01	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMt/Weekday	VMt/Saturday	VMt/Sunday	VMt/Year
Total all Land Uses	8.00	8.00	8.00	2,920	130	130	130	47,596

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	5,400	1,800	19,079

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Light Industry	0.00	375	0.0129	0.0017	0.00
Other Asphalt Surfaces	0.00	375	0.0129	0.0017	0.00
Other Non-Asphalt Surfaces	0.00	375	0.0129	0.0017	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	0.00	180,000
Other Asphalt Surfaces	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	21.6	—
Other Asphalt Surfaces	0.00	—
Other Non-Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38
Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38
Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	2.00	24.0	50.0	5.00	0.73

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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5.17. User Defined

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	20.6	annual days of extreme heat
Extreme Precipitation	5.55	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	2	0	0	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	2	1	1	3
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt. The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	48.6
AQ-PM	23.7
AQ-DPM	22.3
Drinking Water	78.8
Lead Risk Housing	41.2
Pesticides	73.8
Toxic Releases	30.3
Traffic	28.5
Effect Indicators	—
CleanUp Sites	86.5
Groundwater	88.9
Haz Waste Facilities/Generators	99.8
Impaired Water Bodies	51.2
Solid Waste	99.9
Sensitive Population	—
Asthma	50.2
Cardio-vascular	53.9
Low Birth Weights	36.4

Socioeconomic Factor Indicators	—
Education	47.5
Housing	61.9
Linguistic	43.9
Poverty	58.5
Unemployment	62.4

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	36.84075452
Employed	20.45425382
Median HI	23.26446811
Education	—
Bachelor's or higher	39.34300013
High school enrollment	100
Preschool enrollment	18.64493776
Transportation	—
Auto Access	37.4566919
Active commuting	70.79430258
Social	—
2-parent households	14.75683306
Voting	58.51405107
Neighborhood	—
Alcohol availability	64.62209675
Park access	12.70370846
Retail density	22.81534711

Supermarket access	13.65327858
Tree canopy	2.065956628
Housing	—
Homeownership	60.60567176
Housing habitability	41.69126139
Low-inc homeowner severe housing cost burden	38.58591043
Low-inc renter severe housing cost burden	7.737713332
Uncrowded housing	46.38778391
Health Outcomes	—
Insured adults	43.96253048
Arthritis	0.0
Asthma ER Admissions	49.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	16.0
Cognitively Disabled	21.0
Physically Disabled	7.2
Heart Attack ER Admissions	53.7
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	98.4
Physical Health Not Good	0.0
Stroke	0.0

Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	59.5
Elderly	21.1
English Speaking	31.0
Foreign-born	59.3
Outdoor Workers	28.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	91.1
Traffic Density	37.8
Traffic Access	23.0
Other Indices	—
Hardship	62.5
Other Decision Support	—
2016 Voting	63.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	70.0
Healthy Places Index Score for Project Location (b)	29.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Project Details	Updated location setting to rural based on evaluation of surrounding land
Land Use	Project acreages from RFI. Building sq ft for control room, based on PD
Construction: Construction Phases	Construction phase scheduling from RFI
Construction: Off-Road Equipment	Construction equipment data provided in RFI
Construction: Dust From Material Movement	Material quantities from RFI
Construction: Trips and VMT	Worker and haul truck trips provided in RFI. Vendor trips for water trucks. Onsite truck travel phase accounts for pickup trucks on unpaved roads throughout project site.
Operations: Fleet Mix	Based on frequency of daily worker vehicle trips, biweekly maintenance vehicle trips, and water truck trips.
Operations: Energy Use	No energy consumption.
Operations: Water and Waste Water	Outdoor water consumption estimated based on water used for solar panel washing.
Operations: Off-Road Equipment	Maintenance equipment provided in RFI
Operations: Solid Waste	Assume no waste generation.
Construction: Paving	No paved area for 69kV line.

Oveja Ranch Solar - Mitigated Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Oveja Ranch Solar - Mitgated
Construction Start Date	7/1/2026
Operational Year	2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	37.8
Location	38.492977409335026, -121.30417190542263
County	Sacramento
City	Unincorporated
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	708
EDFZ	13
Electric Utility	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Light Industry	17.4	1000sqft	400	3,600	0.00	—	—	Solar arrays and infrastructure

Other Asphalt Surfaces	2.30	Acre	2.30	0.00	0.00	—	—	Access road
Other Non-Asphalt Surfaces	5.00	Acre	5.00	0.00	0.00	—	—	69kV line

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	52.7	51.4	72.4	299	0.41	2.25	43.0	45.3	2.03	5.12	7.15	—	47,871	47,871	1.90	0.93	24.1	48,220
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	59.8	57.4	119	465	0.73	3.67	50.0	53.7	3.39	6.35	9.73	—	84,774	84,774	3.70	2.74	1.20	85,518
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	38.0	36.8	54.9	219	0.31	1.69	28.2	29.9	1.53	3.42	4.95	—	36,217	36,217	1.48	0.75	7.98	36,485
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.93	6.72	10.0	40.0	0.06	0.31	5.14	5.45	0.28	0.62	0.90	—	5,996	5,996	0.24	0.12	1.32	6,040

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.37	0.36	1.72	17.1	0.03	0.06	2.72	2.78	0.06	0.29	0.35	—	3,494	3,494	0.14	0.04	0.53	3,508
2027	52.7	51.4	72.4	299	0.41	2.25	43.0	45.3	2.03	5.12	7.15	—	47,871	47,871	1.90	0.93	24.1	48,220
2028	52.4	50.9	71.2	297	0.41	2.13	43.0	45.2	1.93	5.12	7.05	—	47,688	47,688	1.88	0.75	21.8	47,980
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	59.8	57.4	119	465	0.73	3.67	50.0	53.7	3.39	6.35	9.73	—	84,774	84,774	3.70	2.74	1.20	85,518
2027	58.9	56.3	115	446	0.70	3.41	47.3	50.7	3.15	6.06	9.21	—	81,071	81,071	3.52	2.10	1.08	81,786
2028	52.2	50.8	71.9	290	0.41	2.13	43.0	45.2	1.93	5.12	7.05	—	47,059	47,059	1.91	0.93	0.57	47,383
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	4.54	4.23	13.8	52.5	0.09	0.40	7.93	8.34	0.38	0.95	1.33	—	10,675	10,675	0.49	0.34	2.52	10,791
2027	38.0	36.8	54.9	219	0.31	1.69	28.2	29.9	1.53	3.42	4.95	—	36,217	36,217	1.48	0.75	7.98	36,485
2028	23.9	23.2	32.8	133	0.19	0.98	17.9	18.9	0.88	2.15	3.03	—	21,609	21,609	0.87	0.42	4.32	21,760
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.83	0.77	2.52	9.59	0.02	0.07	1.45	1.52	0.07	0.17	0.24	—	1,767	1,767	0.08	0.06	0.42	1,787
2027	6.93	6.72	10.0	40.0	0.06	0.31	5.14	5.45	0.28	0.62	0.90	—	5,996	5,996	0.24	0.12	1.32	6,040
2028	4.36	4.24	5.99	24.2	0.03	0.18	3.26	3.44	0.16	0.39	0.55	—	3,578	3,578	0.14	0.07	0.72	3,603

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.69	2.31	10.5	14.5	0.05	0.53	0.10	0.62	0.50	0.02	0.53	11.6	5,702	5,714	1.39	0.06	1.29	5,768

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.66	2.28	10.5	14.3	0.05	0.53	0.10	0.62	0.50	0.02	0.53	11.6	5,693	5,704	1.40	0.06	0.95	5,758
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.27	0.25	0.51	0.92	< 0.005	0.02	0.09	0.11	0.01	0.02	0.04	11.6	377	388	1.18	0.02	1.09	424
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.05	0.05	0.09	0.17	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	1.93	62.3	64.3	0.20	< 0.005	0.18	70.1

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.02	0.15	0.42	< 0.005	< 0.005	0.10	0.10	< 0.005	0.02	0.03	—	162	162	0.01	0.01	0.35	167
Area	0.16	0.16	< 0.005	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.64	0.64	< 0.005	< 0.005	—	0.65
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.30	0.30	< 0.005	< 0.005	—	0.30
Waste	—	—	—	—	—	—	—	—	—	—	—	11.6	0.00	11.6	1.16	0.00	—	40.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.94	0.94
Off-Road	2.06	1.73	8.29	11.6	0.05	0.30	—	0.30	0.27	—	0.27	—	5,337	5,337	0.22	0.04	—	5,356
Stationary	0.43	0.39	2.05	2.31	< 0.005	0.23	0.00	0.23	0.23	0.00	0.23	0.00	201	201	0.01	< 0.005	0.00	202
Total	2.69	2.31	10.5	14.5	0.05	0.53	0.10	0.62	0.50	0.02	0.53	11.6	5,702	5,714	1.39	0.06	1.29	5,768
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.03	0.02	0.16	0.32	< 0.005	< 0.005	0.10	0.10	< 0.005	0.02	0.03	—	153	153	0.01	0.01	0.01	158
Area	0.13	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.30	0.30	< 0.005	< 0.005	—	0.30
Waste	—	—	—	—	—	—	—	—	—	—	—	11.6	0.00	11.6	1.16	0.00	—	40.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.94	0.94
Off-Road	2.06	1.73	8.29	11.6	0.05	0.30	—	0.30	0.27	—	0.27	—	5,337	5,337	0.22	0.04	—	5,356
Stationary	0.43	0.39	2.05	2.31	< 0.005	0.23	0.00	0.23	0.23	0.00	0.23	0.00	201	201	0.01	< 0.005	0.00	202
Total	2.66	2.28	10.5	14.3	0.05	0.53	0.10	0.62	0.50	0.02	0.53	11.6	5,693	5,704	1.40	0.06	0.95	5,758
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.02	0.15	0.32	< 0.005	< 0.005	0.09	0.10	< 0.005	0.02	0.03	—	155	155	0.01	0.01	0.15	160
Area	0.15	0.15	< 0.005	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.44	0.44	< 0.005	< 0.005	—	0.44
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.30	0.30	< 0.005	< 0.005	—	0.30
Waste	—	—	—	—	—	—	—	—	—	—	—	11.6	0.00	11.6	1.16	0.00	—	40.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.94	0.94
Off-Road	0.08	0.07	0.34	0.48	< 0.005	0.01	—	0.01	0.01	—	0.01	—	219	219	0.01	< 0.005	—	220
Stationary	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	1.15	1.15	< 0.005	< 0.005	0.00	1.15
Total	0.27	0.25	0.51	0.92	< 0.005	0.02	0.09	0.11	0.01	0.02	0.04	11.6	377	388	1.18	0.02	1.09	424
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	< 0.005	0.03	0.06	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	25.7	25.7	< 0.005	< 0.005	0.03	26.5
Area	0.03	0.03	< 0.005	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.07	0.07	< 0.005	< 0.005	—	0.07
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.05	0.05	< 0.005	< 0.005	—	0.05
Waste	—	—	—	—	—	—	—	—	—	—	—	1.93	0.00	1.93	0.19	0.00	—	6.74

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16	0.16
Off-Road	0.02	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.3	36.3	< 0.005	< 0.005	—	36.4
Stationary	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	0.19	0.19	< 0.005	< 0.005	0.00	0.19
Total	0.05	0.05	0.09	0.17	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	1.93	62.3	64.3	0.20	< 0.005	0.18	70.1

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.45	1.35	9.24	51.2	0.10	0.29	—	0.29	0.28	—	0.28	—	10,154	10,154	0.41	0.08	—	10,189
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.10	0.56	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	111	111	< 0.005	< 0.005	—	112

Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.4	18.4	< 0.005	< 0.005	—	18.5
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.07	0.83	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	198	198	< 0.005	0.01	0.02	200
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.12	0.02	1.89	0.67	0.01	0.02	0.28	0.30	0.02	0.08	0.10	—	1,073	1,073	0.10	0.17	0.06	1,127
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.22	2.22	< 0.005	< 0.005	< 0.005	2.25
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.8	11.8	< 0.005	< 0.005	0.01	12.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.37
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.95	1.95	< 0.005	< 0.005	< 0.005	2.05

3.3. Site Preparation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.97	4.48	30.6	137	0.24	1.06	—	1.06	1.01	—	1.01	—	25,111	25,111	1.02	0.20	—	25,197
Dust From Material Movement	—	—	—	—	—	—	0.79	0.79	—	0.09	0.09	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.10	0.67	3.00	0.01	0.02	—	0.02	0.02	—	0.02	—	550	550	0.02	< 0.005	—	552
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm ent	0.02	0.02	0.12	0.55	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	91.1	91.1	< 0.005	< 0.005	—	91.4
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.10	1.24	0.00	0.00	0.30	0.30	0.00	0.07	0.07	—	297	297	0.01	0.01	0.03	300
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	1.27	0.25	20.2	7.18	0.07	0.21	3.04	3.25	0.21	0.81	1.03	—	11,441	11,441	1.02	1.85	0.61	12,019
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.67	6.67	< 0.005	< 0.005	0.01	6.76
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.01	0.43	0.16	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	251	251	0.02	0.04	0.22	264
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.10	1.10	< 0.005	< 0.005	< 0.005	1.12
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.08	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	41.5	41.5	< 0.005	0.01	0.04	43.7

3.5. 69 kV Line Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	0.31	1.64	16.4	0.03	0.06	—	0.06	0.06	—	0.06	—	3,334	3,334	0.14	0.03	—	3,345
Onsite truck	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	2.60	2.60	< 0.005	0.26	0.26	—	26.5	26.5	< 0.005	< 0.005	0.05	27.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	0.31	1.64	16.4	0.03	0.06	—	0.06	0.06	—	0.06	—	3,334	3,334	0.14	0.03	—	3,345
Onsite truck	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	2.60	2.60	< 0.005	0.26	0.26	—	26.4	26.4	< 0.005	< 0.005	< 0.005	27.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.10	0.53	5.34	0.01	0.02	—	0.02	0.02	—	0.02	—	1,087	1,087	0.04	0.01	—	1,091
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.76	0.76	< 0.005	0.08	0.08	—	8.62	8.62	< 0.005	< 0.005	0.01	9.07
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.10	0.97	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	180	180	0.01	< 0.005	—	181
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.14	0.14	< 0.005	0.01	0.01	—	1.43	1.43	< 0.005	< 0.005	< 0.005	1.50
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.68	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	134	134	< 0.005	< 0.005	0.48	135
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.50	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	119	119	< 0.005	< 0.005	0.01	120
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	39.7	39.7	< 0.005	< 0.005	0.07	40.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.57	6.57	< 0.005	< 0.005	0.01	6.66
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Onsite Truck Trip Travel (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.06	0.04	1.08	0.54	< 0.005	< 0.005	37.1	37.1	< 0.005	3.71	3.71	—	329	329	0.02	0.05	0.02	344
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.19	0.09	< 0.005	< 0.005	5.99	5.99	< 0.005	0.60	0.60	—	59.4	59.4	< 0.005	0.01	0.06	62.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	1.09	1.09	< 0.005	0.11	0.11	—	9.83	9.83	< 0.005	< 0.005	0.01	10.3
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Onsite Truck Trip Travel (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.06	0.04	0.99	0.46	< 0.005	< 0.005	37.1	37.1	< 0.005	3.71	3.71	—	324	324	0.02	0.05	0.73	339
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.06	0.04	1.02	0.52	< 0.005	< 0.005	37.1	37.1	< 0.005	3.71	3.71	—	323	323	0.02	0.05	0.02	338
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.04	0.03	0.72	0.35	< 0.005	< 0.005	23.8	23.8	< 0.005	2.37	2.37	—	231	231	0.02	0.03	0.22	242
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	4.34	4.34	< 0.005	0.43	0.43	—	38.2	38.2	< 0.005	0.01	0.04	40.1
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Onsite Truck Trip Travel (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.06	0.04	0.93	0.44	< 0.005	< 0.005	37.1	37.1	< 0.005	3.71	3.71	—	316	316	0.02	0.05	0.66	331
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.06	0.03	0.96	0.50	< 0.005	< 0.005	37.1	37.1	< 0.005	3.71	3.71	—	316	316	0.02	0.05	0.02	330
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.03	0.02	0.43	0.21	< 0.005	< 0.005	15.2	15.2	< 0.005	1.52	1.52	—	145	145	0.01	0.02	0.13	151
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	2.78	2.78	< 0.005	0.28	0.28	—	23.9	23.9	< 0.005	< 0.005	0.02	25.1

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Pickup Truck Deliveries (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.16	0.03	2.52	0.90	0.01	0.03	0.38	0.41	0.03	0.10	0.13	—	1,430	1,430	0.13	0.23	0.08	1,502
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.01	0.44	0.16	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	257	257	0.02	0.04	0.23	271
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.08	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	42.6	42.6	< 0.005	0.01	0.04	44.8

3.15. Pickup Truck Deliveries (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.15	0.03	2.20	0.87	0.01	0.03	0.38	0.41	0.03	0.10	0.13	—	1,396	1,396	0.12	0.22	2.71	1,468
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.15	0.03	2.38	0.87	0.01	0.03	0.38	0.41	0.03	0.10	0.13	—	1,396	1,396	0.12	0.22	0.07	1,465
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.11	0.02	1.67	0.62	0.01	0.02	0.27	0.29	0.02	0.07	0.09	—	997	997	0.08	0.16	0.83	1,047
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	< 0.005	0.30	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	165	165	0.01	0.03	0.14	173

3.17. Pickup Truck Deliveries (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.14	0.03	2.08	0.84	0.01	0.03	0.38	0.41	0.03	0.10	0.13	—	1,357	1,357	0.11	0.21	2.47	1,426
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.14	0.03	2.25	0.85	0.01	0.03	0.38	0.41	0.03	0.10	0.13	—	1,357	1,357	0.11	0.21	0.06	1,424
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.06	0.01	1.01	0.39	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	622	622	0.05	0.10	0.49	652
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.18	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	103	103	0.01	0.02	0.08	108

3.19. Grading/Excavation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.24	4.73	32.2	144	0.25	1.13	—	1.13	1.07	—	1.07	—	26,528	26,528	1.08	0.22	—	26,619
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.73	4.98	22.2	0.04	0.17	—	0.17	0.17	—	0.17	—	4,101	4,101	0.17	0.03	—	4,115
Dust From Material Movement	—	—	—	—	—	—	0.12	0.12	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.91	4.06	0.01	0.03	—	0.03	0.03	—	0.03	—	679	679	0.03	0.01	—	681
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.73	0.71	0.65	8.12	0.00	0.00	1.98	1.98	0.00	0.46	0.46	—	1,937	1,937	0.04	0.08	0.20	1,962
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.62	0.12	9.78	3.48	0.03	0.10	1.47	1.57	0.10	0.39	0.50	—	5,542	5,542	0.49	0.90	0.30	5,822
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.09	1.28	0.00	0.00	0.30	0.30	0.00	0.07	0.07	—	307	307	0.01	0.01	0.52	312
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.10	0.02	1.48	0.54	0.01	0.02	0.22	0.24	0.02	0.06	0.08	—	857	857	0.08	0.14	0.76	901
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.23	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	50.9	50.9	< 0.005	< 0.005	0.09	51.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	< 0.005	0.27	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	142	142	0.01	0.02	0.13	149

3.21. Grading/Excavation (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm ent	5.10	4.61	31.8	144	0.25	1.06	—	1.06	1.01	—	1.01	—	26,533	26,533	1.08	0.22	—	26,624
Dust From Material Movement	—	—	—	—	—	—	0.78	0.78	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.36	0.32	2.24	10.1	0.02	0.07	—	0.07	0.07	—	0.07	—	1,869	1,869	0.08	0.02	—	1,876
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.07	0.06	0.41	1.85	< 0.005	0.01	—	0.01	0.01	—	0.01	—	309	309	0.01	< 0.005	—	311
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.70	0.62	0.65	7.62	0.00	0.00	1.98	1.98	0.00	0.46	0.46	—	1,903	1,903	0.04	0.08	0.18	1,928
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.58	0.12	9.23	3.38	0.03	0.10	1.47	1.57	0.10	0.39	0.50	—	5,408	5,408	0.46	0.86	0.27	5,676
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.55	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	138	138	< 0.005	0.01	0.22	139
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	0.01	0.64	0.24	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	—	381	381	0.03	0.06	0.32	400
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.8	22.8	< 0.005	< 0.005	0.04	23.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.12	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	63.1	63.1	0.01	0.01	0.05	66.3

3.23. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	50.6	49.5	67.4	269	0.39	2.33	—	2.33	2.10	—	2.10	—	39,435	39,435	1.60	0.32	—	39,571
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	2.97	2.90	3.96	15.8	0.02	0.14	—	0.14	0.12	—	0.12	—	2,315	2,315	0.09	0.02	—	2,323
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.54	0.53	0.72	2.88	< 0.005	0.02	—	0.02	0.02	—	0.02	—	383	383	0.02	< 0.005	—	385
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.97	1.91	1.76	21.8	0.00	0.00	5.31	5.31	0.00	1.25	1.25	—	5,199	5,199	0.12	0.21	0.54	5,266
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.10	0.02	1.58	0.56	0.01	0.02	0.24	0.25	0.02	0.06	0.08	—	894	894	0.08	0.14	0.05	939
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.09	1.30	0.00	0.00	0.30	0.30	0.00	0.07	0.07	—	313	313	0.01	0.01	0.53	318
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.09	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	52.5	52.5	< 0.005	0.01	0.05	55.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.24	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	51.9	51.9	< 0.005	< 0.005	0.09	52.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.69	8.69	< 0.005	< 0.005	0.01	9.13

3.25. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	50.3	49.2	66.5	269	0.39	2.20	—	2.20	1.99	—	1.99	—	39,530	39,530	1.60	0.32	—	39,665
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	50.3	49.2	66.5	269	0.39	2.20	—	2.20	1.99	—	1.99	—	39,530	39,530	1.60	0.32	—	39,665
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	35.9	35.2	47.5	192	0.28	1.57	—	1.57	1.42	—	1.42	—	28,235	28,235	1.15	0.23	—	28,332
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.56	6.42	8.67	35.0	0.05	0.29	—	0.29	0.26	—	0.26	—	4,675	4,675	0.19	0.04	—	4,691

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.07	2.04	1.33	27.9	0.00	0.00	5.31	5.31	0.00	1.25	1.25	—	5,749	5,749	0.08	0.20	19.0	5,830
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.09	0.02	1.38	0.54	0.01	0.02	0.24	0.25	0.02	0.06	0.08	—	872	872	0.07	0.14	1.69	917
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.89	1.66	1.73	20.4	0.00	0.00	5.31	5.31	0.00	1.25	1.25	—	5,107	5,107	0.12	0.21	0.49	5,174
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.09	0.02	1.49	0.54	0.01	0.02	0.24	0.25	0.02	0.06	0.08	—	872	872	0.07	0.14	0.04	916
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.34	1.19	1.09	15.0	0.00	0.00	3.70	3.70	0.00	0.87	0.87	—	3,743	3,743	0.07	0.14	5.86	3,793
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.07	0.01	1.04	0.39	< 0.005	0.01	0.17	0.18	0.01	0.04	0.06	—	623	623	0.05	0.10	0.52	654
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.22	0.20	2.73	0.00	0.00	0.68	0.68	0.00	0.16	0.16	—	620	620	0.01	0.02	0.97	628
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.19	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	103	103	0.01	0.02	0.09	108

3.27. Building Construction (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	50.1	49.1	65.8	269	0.39	2.09	—	2.09	1.88	—	1.88	—	39,535	39,535	1.60	0.32	—	39,671
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	50.1	49.1	65.8	269	0.39	2.09	—	2.09	1.88	—	1.88	—	39,535	39,535	1.60	0.32	—	39,671
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	22.9	22.5	30.1	123	0.18	0.96	—	0.96	0.86	—	0.86	—	18,104	18,104	0.73	0.15	—	18,166
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	4.19	4.10	5.50	22.4	0.03	0.17	—	0.17	0.16	—	0.16	—	2,997	2,997	0.12	0.02	—	3,008
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	2.00	1.80	1.15	26.2	0.00	0.00	5.31	5.31	0.00	1.25	1.25	—	5,631	5,631	0.07	0.03	17.2	5,660
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.09	0.02	1.30	0.53	0.01	0.02	0.24	0.25	0.02	0.06	0.08	—	848	848	0.07	0.13	1.54	891
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.83	1.62	1.54	19.3	0.00	0.00	5.31	5.31	0.00	1.25	1.25	—	5,002	5,002	0.10	0.21	0.45	5,069
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.09	0.02	1.40	0.53	0.01	0.02	0.24	0.25	0.02	0.06	0.08	—	848	848	0.07	0.13	0.04	890
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.83	0.74	0.61	9.02	0.00	0.00	2.37	2.37	0.00	0.56	0.56	—	2,351	2,351	0.04	0.09	3.40	2,382
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	0.01	0.63	0.24	< 0.005	0.01	0.11	0.11	0.01	0.03	0.04	—	388	388	0.03	0.06	0.31	408
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.11	1.65	0.00	0.00	0.43	0.43	0.00	0.10	0.10	—	389	389	0.01	0.02	0.56	394
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.11	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	64.3	64.3	0.01	0.01	0.05	67.5

3.29. Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	1.66	1.44	12.1	31.6	0.06	0.33	—	0.33	0.31	—	0.31	—	5,690	5,690	0.23	0.05	—	5,710
Paving	0.30	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.09	0.08	0.67	1.73	< 0.005	0.02	—	0.02	0.02	—	0.02	—	312	312	0.01	< 0.005	—	313
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.02	0.01	0.12	0.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	51.6	51.6	< 0.005	< 0.005	—	51.8
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.15	0.13	1.66	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	395	395	0.01	0.02	0.04	400
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	< 0.005	0.32	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	179	179	0.02	0.03	0.01	188
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.2	22.2	< 0.005	< 0.005	0.04	22.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.80	9.80	< 0.005	< 0.005	0.01	10.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.68	3.68	< 0.005	< 0.005	0.01	3.73
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.62	1.62	< 0.005	< 0.005	< 0.005	1.71

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.10	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.03	0.03	< 0.005	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.64	0.64	< 0.005	< 0.005	—	0.65
Total	0.16	0.16	< 0.005	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.64	0.64	< 0.005	< 0.005	—	0.65
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.10	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.13	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Product	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	< 0.005	< 0.005	< 0.005	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.07	0.07	< 0.005	< 0.005	—	0.07
Total	0.03	0.03	< 0.005	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.07	0.07	< 0.005	< 0.005	—	0.07

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	0.30	0.30	< 0.005	< 0.005	—	0.30
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.30	0.30	< 0.005	< 0.005	—	0.30
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	0.30	0.30	< 0.005	< 0.005	—	0.30
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.30	0.30	< 0.005	< 0.005	—	0.30
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	0.00	0.05	0.05	< 0.005	< 0.005	—	0.05
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.05	0.05	< 0.005	< 0.005	—	0.05

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	11.6	0.00	11.6	1.16	0.00	—	40.7

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	11.6	0.00	11.6	1.16	0.00	—	40.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	11.6	0.00	11.6	1.16	0.00	—	40.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	11.6	0.00	11.6	1.16	0.00	—	40.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	1.93	0.00	1.93	0.19	0.00	—	6.74
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1.93	0.00	1.93	0.19	0.00	—	6.74

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.94	0.94
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.94	0.94
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.94	0.94
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.94	0.94
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16	0.16
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16	0.16

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-High way	2.06	1.73	8.29	11.6	0.05	0.30	—	0.30	0.27	—	0.27	—	5,337	5,337	0.22	0.04	—	5,356
Total	2.06	1.73	8.29	11.6	0.05	0.30	—	0.30	0.27	—	0.27	—	5,337	5,337	0.22	0.04	—	5,356
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-High way Trucks	2.06	1.73	8.29	11.6	0.05	0.30	—	0.30	0.27	—	0.27	—	5,337	5,337	0.22	0.04	—	5,356
Total	2.06	1.73	8.29	11.6	0.05	0.30	—	0.30	0.27	—	0.27	—	5,337	5,337	0.22	0.04	—	5,356
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-High way Trucks	0.02	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.3	36.3	< 0.005	< 0.005	—	36.4
Total	0.02	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.3	36.3	< 0.005	< 0.005	—	36.4

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergen cy Generator	0.43	0.39	2.05	2.31	< 0.005	0.23	0.00	0.23	0.23	0.00	0.23	0.00	201	201	0.01	< 0.005	0.00	202
Total	0.43	0.39	2.05	2.31	< 0.005	0.23	0.00	0.23	0.23	0.00	0.23	0.00	201	201	0.01	< 0.005	0.00	202
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Emergence Generator	0.43	0.39	2.05	2.31	< 0.005	0.23	0.00	0.23	0.23	0.00	0.23	0.00	201	201	0.01	< 0.005	0.00	202
Total	0.43	0.39	2.05	2.31	< 0.005	0.23	0.00	0.23	0.23	0.00	0.23	0.00	201	201	0.01	< 0.005	0.00	202
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	0.19	0.19	< 0.005	< 0.005	0.00	0.19
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	0.19	0.19	< 0.005	< 0.005	0.00	0.19

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetati	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	10/1/2026	10/6/2026	5.00	4.00	—
Site Preparation	Site Preparation	10/1/2026	10/12/2026	5.00	8.00	—
69 kV Line Construction	Site Preparation	7/1/2026	12/14/2026	5.00	119	—
Onsite Truck Trip Travel	Site Preparation	10/1/2026	8/21/2028	5.00	493	—
Pickup Truck Deliveries	Site Preparation	10/1/2026	8/21/2028	5.00	493	—
Grading/Excavation	Grading	10/14/2026	2/5/2027	5.00	83.0	—
Building Construction	Building Construction	12/2/2026	8/21/2028	5.00	449	—
Paving	Paving	10/1/2026	10/28/2026	5.00	20.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Tier 4 Final	1.00	10.0	200	0.38
Demolition	Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	10.0	300	0.40
Demolition	Generator Sets	Diesel	Average	1.00	24.0	35.0	0.74
Demolition	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	10.0	400	0.38
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	6.00	10.0	400	0.38
Site Preparation	Excavators	Diesel	Tier 4 Final	1.00	10.0	200	0.38
Site Preparation	Excavators	Diesel	Tier 4 Final	3.00	10.0	108	0.38
Site Preparation	Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	10.0	300	0.40

Site Preparation	Generator Sets	Diesel	Average	2.00	24.0	35.0	0.74
Site Preparation	Graders	Diesel	Tier 4 Final	2.00	10.0	200	0.41
Site Preparation	Plate Compactors	Diesel	Average	2.00	10.0	6.00	0.43
Site Preparation	Pumps	Diesel	Average	4.00	10.0	15.0	0.74
Site Preparation	Rollers	Diesel	Average	3.00	10.0	30.0	0.38
Site Preparation	Rubber Tired Loaders	Diesel	Tier 4 Final	3.00	10.0	75.0	0.36
Site Preparation	Skid Steer Loaders	Diesel	Tier 4 Final	5.00	10.0	75.0	0.37
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	10.0	300	0.37
Site Preparation	Trenchers	Diesel	Average	2.00	10.0	40.0	0.50
Site Preparation	Crawler Tractors	Diesel	Tier 4 Final	1.00	10.0	250	0.43
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	2.00	350	0.38
69 kV Line Construction	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	10.0	376	0.38
Grading/Excavation	Off-Highway Trucks	Diesel	Tier 4 Final	6.00	10.0	400	0.38
Grading/Excavation	Excavators	Diesel	Tier 4 Final	1.00	10.0	200	0.38
Grading/Excavation	Excavators	Diesel	Tier 4 Final	3.00	10.0	108	0.38
Grading/Excavation	Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	10.0	300	0.40
Grading/Excavation	Generator Sets	Diesel	Average	2.00	24.0	35.0	0.74
Grading/Excavation	Graders	Diesel	Tier 4 Final	2.00	10.0	200	0.41
Grading/Excavation	Plate Compactors	Diesel	Average	6.00	10.0	6.00	0.43
Grading/Excavation	Pumps	Diesel	Average	4.00	10.0	15.0	0.74
Grading/Excavation	Rollers	Diesel	Average	3.00	10.0	30.0	0.38
Grading/Excavation	Rubber Tired Loaders	Diesel	Tier 4 Final	3.00	10.0	75.0	0.36
Grading/Excavation	Skid Steer Loaders	Diesel	Tier 4 Final	5.00	10.0	75.0	0.37
Grading/Excavation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	10.0	300	0.37
Grading/Excavation	Trenchers	Diesel	Average	2.00	10.0	40.0	0.50
Grading/Excavation	Crawler Tractors	Diesel	Tier 4 Final	1.00	10.0	250	0.43

Grading/Excavation	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	2.00	350	0.38
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	3.00	10.0	84.0	0.31
Building Construction	Bore/Drill Rigs	Diesel	Tier 4 Final	5.00	11.0	70.0	0.50
Building Construction	Cement and Mortar Mixers	Electric	Average	1.00	10.0	10.0	0.56
Building Construction	Concrete/Industrial Saws	Gasoline	Average	1.00	10.0	10.0	0.78
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	10.0	300	0.29
Building Construction	Off-Highway Trucks	Diesel	Tier 4 Final	10.0	10.0	400	0.38
Building Construction	Excavators	Diesel	Tier 4 Final	1.00	10.0	200	0.38
Building Construction	Excavators	Diesel	Tier 4 Final	3.00	10.0	108	0.38
Building Construction	Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	10.0	300	0.40
Building Construction	Generator Sets	Diesel	Average	10.0	12.0	35.0	0.74
Building Construction	Graders	Diesel	Tier 4 Final	2.00	10.0	200	0.41
Building Construction	Plate Compactors	Diesel	Average	10.0	10.0	6.00	0.43
Building Construction	Pumps	Diesel	Average	4.00	10.0	15.0	0.74
Building Construction	Rollers	Diesel	Average	3.00	10.0	20.0	0.38
Building Construction	Rubber Tired Loaders	Diesel	Tier 4 Final	3.00	10.0	75.0	0.36
Building Construction	Skid Steer Loaders	Diesel	Tier 4 Final	5.00	10.0	75.0	0.37
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	10.0	300	0.37
Building Construction	Trenchers	Diesel	Average	2.00	10.0	40.0	0.50
Building Construction	Welders	Diesel	Average	2.00	10.0	46.0	0.45
Building Construction	Crawler Tractors	Diesel	Tier 4 Final	1.00	10.0	250	0.43
Building Construction	Air Compressors	Diesel	Tier 4 Final	1.00	10.0	140	0.48
Building Construction	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	2.00	350	0.38
Paving	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	10.0	400	0.38
Paving	Excavators	Diesel	Tier 4 Final	1.00	10.0	200	0.38
Paving	Generator Sets	Diesel	Average	2.00	24.0	35.0	0.74

Paving	Graders	Diesel	Tier 4 Final	1.00	10.0	200	0.41
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	10.0	89.0	0.36
Paving	Rollers	Diesel	Average	1.00	10.0	30.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	20.0	14.3	LDA,LDT1,LDT2
Demolition	Vendor	—	8.80	HHDT,MHDT
Demolition	Hauling	6.00	50.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	30.0	14.3	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00	8.80	HHDT,MHDT
Site Preparation	Hauling	64.0	50.0	HHDT
Site Preparation	Onsite truck	0.00	0.00	HHDT
Grading/Excavation	—	—	—	—
Grading/Excavation	Worker	196	14.3	LDA,LDT1,LDT2
Grading/Excavation	Vendor	0.00	8.80	HHDT,MHDT
Grading/Excavation	Hauling	31.0	50.0	HHDT
Grading/Excavation	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	526	14.3	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	8.80	HHDT,MHDT
Building Construction	Hauling	5.00	50.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT

Paving	—	—	—	—
Paving	Worker	40.0	14.3	LDA,LDT1,LDT2
Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	1.00	50.0	HHDT
Paving	Onsite truck	—	—	HHDT
69 kV Line Construction	—	—	—	—
69 kV Line Construction	Worker	12.0	14.3	LDA,LDT1,LDT2
69 kV Line Construction	Vendor	—	8.80	HHDT,MHDT
69 kV Line Construction	Hauling	0.00	20.0	HHDT
69 kV Line Construction	Onsite truck	1.00	7.00	HHDT
Onsite Truck Trip Travel	—	—	—	—
Onsite Truck Trip Travel	Worker	0.00	14.3	LDA,LDT1,LDT2
Onsite Truck Trip Travel	Vendor	—	8.80	HHDT,MHDT
Onsite Truck Trip Travel	Hauling	0.00	20.0	HHDT
Onsite Truck Trip Travel	Onsite truck	100	1.00	MHDT
Pickup Truck Deliveries	—	—	—	—
Pickup Truck Deliveries	Worker	0.00	14.3	LDA,LDT1,LDT2
Pickup Truck Deliveries	Vendor	—	8.80	HHDT,MHDT
Pickup Truck Deliveries	Hauling	8.00	50.0	HHDT
Pickup Truck Deliveries	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
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5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	—	—
Site Preparation	—	4,350	15.0	0.00	—
Grading/Excavation	19,996	3,155	30.0	0.00	—
Paving	0.00	0.00	0.00	0.00	2.30

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	0%
Other Asphalt Surfaces	2.30	100%
Other Non-Asphalt Surfaces	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
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2026	41.8	375	0.01	< 0.005
2027	41.8	375	0.01	< 0.005
2028	41.8	375	0.01	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	8.00	8.00	8.00	2,920	130	130	130	47,596

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	5,400	1,800	19,079

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Light Industry	0.00	375	0.0129	0.0017	0.00
Other Asphalt Surfaces	0.00	375	0.0129	0.0017	0.00
Other Non-Asphalt Surfaces	0.00	375	0.0129	0.0017	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	0.00	180,000
Other Asphalt Surfaces	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	21.6	—
Other Asphalt Surfaces	0.00	—
Other Non-Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Served
General Light Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38
Off-Highway Trucks	Diesel	Average	1.00	8.00	376	0.38
Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	2.00	24.0	50.0	5.00	0.73

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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5.17. User Defined

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	20.6	annual days of extreme heat
Extreme Precipitation	5.55	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	2	0	0	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	2	1	1	3
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	48.6
AQ-PM	23.7
AQ-DPM	22.3
Drinking Water	78.8
Lead Risk Housing	41.2
Pesticides	73.8
Toxic Releases	30.3
Traffic	28.5
Effect Indicators	—
CleanUp Sites	86.5
Groundwater	88.9
Haz Waste Facilities/Generators	99.8
Impaired Water Bodies	51.2
Solid Waste	99.9
Sensitive Population	—
Asthma	50.2
Cardio-vascular	53.9
Low Birth Weights	36.4

Socioeconomic Factor Indicators	—
Education	47.5
Housing	61.9
Linguistic	43.9
Poverty	58.5
Unemployment	62.4

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	36.84075452
Employed	20.45425382
Median HI	23.26446811
Education	—
Bachelor's or higher	39.34300013
High school enrollment	100
Preschool enrollment	18.64493776
Transportation	—
Auto Access	37.4566919
Active commuting	70.79430258
Social	—
2-parent households	14.75683306
Voting	58.51405107
Neighborhood	—
Alcohol availability	64.62209675
Park access	12.70370846
Retail density	22.81534711

Supermarket access	13.65327858
Tree canopy	2.065956628
Housing	—
Homeownership	60.60567176
Housing habitability	41.69126139
Low-inc homeowner severe housing cost burden	38.58591043
Low-inc renter severe housing cost burden	7.737713332
Uncrowded housing	46.38778391
Health Outcomes	—
Insured adults	43.96253048
Arthritis	0.0
Asthma ER Admissions	49.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	16.0
Cognitively Disabled	21.0
Physically Disabled	7.2
Heart Attack ER Admissions	53.7
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	98.4
Physical Health Not Good	0.0
Stroke	0.0

Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	59.5
Elderly	21.1
English Speaking	31.0
Foreign-born	59.3
Outdoor Workers	28.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	91.1
Traffic Density	37.8
Traffic Access	23.0
Other Indices	—
Hardship	62.5
Other Decision Support	—
2016 Voting	63.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	70.0
Healthy Places Index Score for Project Location (b)	29.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Project Details	Updated location setting to rural based on evaluation of surrounding land
Land Use	Project acreages from RFI. Building sq ft for control room, based on PD
Construction: Construction Phases	Construction phase scheduling from RFI
Construction: Off-Road Equipment	Construction equipment data provided in RFI
Construction: Dust From Material Movement	Material quantities from RFI
Construction: Trips and VMT	Worker and haul truck trips provided in RFI. Vendor trips for water trucks. Onsite truck travel phase accounts for pickup trucks on unpaved roads throughout project site.
Operations: Fleet Mix	Based on frequency of daily worker vehicle trips, biweekly maintenance vehicle trips, and water truck trips.
Operations: Energy Use	No energy consumption.
Operations: Water and Waste Water	Outdoor water consumption estimated based on water used for solar panel washing.
Operations: Off-Road Equipment	Maintenance equipment provided in RFI
Operations: Solid Waste	Assume no waste generation.
Construction: Paving	No paved area for 69kV line.
Construction: Off-Road Equipment EF	manual entry for air compressor

Oveja Ranch CalEEMod Assumptions and Inputs

Project Name	Oveja Ranch Solar Project
Project Location	Florin Road and Gerber Road
Climate Zone	6
Land Use Setting	Rural
Operational Year	2029
Utility	Sacramento Municipal Utility District (SMUD)
Construction Workdays	5 days per week; 10 hours per day
Weekend work only as needed.	

Project Component	Type	SubType	Acreeage	Thousand Square Feet	Building Sq Ft	Notes
Solar Arrays and Infrastructure	Industrial	General Light Industry	400.0	17,424	3,600	Leased land for solar panels, battery storage, substation, distribution infrastructure area from RFI
Access Road	Parking	Other Asphalt Surfaces	1	2.3	90	
Offsite Collector Line (69kV)	Parking	Other Non-Asphalt Surfaces	1	5.0		From RFI

Phase Name	Start	End	Duration (workdays)	Notes
69kV Line Construction	7/1/2026	12/14/2026	119	3.5 month duration
Onsite Truck Trip Travel	10/1/2026	8/21/2028	493	Phase for entire duration of project to capture onsite pickup truck trips
Pickup Truck Deliveries	10/1/2026	8/21/2028	493	Phase for entire duration of project to capture pickup truck deliveries to project site (indicated as "Other Construction Support" in RFI)
Demolition	10/1/2026	10/6/2026	4	
Site Preparation	10/1/2026	10/12/2026	8	
Grading/Excavation	10/14/2026	2/5/2027	83	Grading and excavation phases in RFI combined
Building/Infrastructure Construction	12/2/2026	8/21/2028	449	
Paving	10/1/2026	10/28/2026	20	
Notes:				493.00
1. Excavation and grading would be limited. Excavation equipment is included in the Grading and Site Preparation phases; therefore, the excavation phase is assumed to be included with grading.				
2. The construction phase end date is based on the duration indicated in the RFI.				

Phase Name	CalEEMod Phase Type	CalEEMod Equipment	Quantity	Maximum Daily Hours per Day	HP	Notes
69 kV Line Construction	Site Preparation	Heavy-Duty Truck	2	10	Default	2 line trucks
Demolition	Demolition	Off-Highway Truck	4	10	400	
		Excavators	1	10	200	
		Rough Terrain Forklifts	1	10	300	
		Generator Sets	1	24	35	
Site Preparation	Site Preparation	Off-Highway Truck	6	10	400	
		Excavators (200hp)	1	10	200	
		Excavators (108hp)	3	10	108	
		Rough Terrain Forklifts	1	10	300	
		Generator Sets	2	24	35	
		Graders	2	10	200	
		Plate Compactors	2	10	6	
		Pumps	4	10	15	
		Rollers	3	10	30	
		Rubber Tired Loaders	3	10	75	
		Skid Steer Loader	5	10	75	
		Tractor/Loader/Backhoe	1	10	300	
		Trenchers	2	10	default	
		Water Truck (Off-Highway Truck)	2	2	350	Included a few hours for onsite use
		Ice Machine (electric)	1	N/A	N/A	assume powered by generator
		Crawler Tractor	1	10	250	
		Off-Highway Truck	6	10	400	
		Excavators (200hp)	1	10	200	
		Excavators (108hp)	3	10	108	
Grading/Excavation	Grading	Rough Terrain Forklifts	1	10	300	
		Generator Sets	2	24	35	
		Graders	2	10	200	
		Plate Compactors	6	10	6	
		Pumps	4	10	15	
		Rollers	3	10	30	
		Rubber Tired Loaders	3	10	75	
		Skid Steer Loader	5	10	75	
		Tractor/Loader/Backhoe	2	10	300	
		Trenchers	2	10	default	
		Water Truck (Off-Highway Truck)	2	2	350	Included a few hours for onsite use
		Ice Machine (electric)	1	N/A	N/A	assume powered by generator
		Crawler Tractor	1	10	250	
Construction	Building Construction	Aerial Lift	3	10	84	10 hours per day only for overhead work
		Air Compressors	1	10	140	
		Bore/Drill Rigs	5	11	70	25k hours total, works out to 11 hours per day
		Cement + Mortar Mixer	1	10	electric, default	2k hours total. Assume maximum daily 10 hours
		Concrete/Industrial Saws	1	10	15	gasoline, 1k hours total. Assume maximum daily 10 hours
		Cranes	1	10	300	500 hours total. Assume maximum daily 10 hours
		Off-Highway Truck	10	10	400	
		Excavators (200hp)	1	10	200	
		Excavators (108hp)	3	10	108	
		Rough Terrain Forklifts	1	10	300	
		Generator Sets	10	12	35	
		Graders	2	10	200	
		Plate Compactors	10	10	6	
		Pumps	4	10	15	
		Rollers	3	10	20	
		Rubber Tired Loaders	3	10	75	
		Skid Steer Loader	5	10	75	
		Tractor/Loader/Backhoe	1	10	300	
		Trenchers	2	10	default	
		Welders	2	10	default	
		Water Truck (Off-Highway Truck)	2	2	350	Included a few hours for onsite use
		Ice Machine (electric)	1	N/A	N/A	assume powered by generator
		Crawler Tractor	1	10	250	500 hours total
Paving	Paving	Off-Highway Truck	1	10	400	
		Excavators	1	10	200	Assumed larger excavator
		Generator Sets	2	24	35	
		Graders	1	10	200	
		Paving Equipment	1	10	default	
		Rollers	1	10	30	

Grading Material Quantities				Notes
Phases	Material	Import (cy)	Export (cy)	
Site Preparation	Topsoil		4,350	From data RFI
Grading/Excavation	Gravel, backfill, import fill (import), Surplus excavation (export)		3,155	
		1,250	469	

note - not including wood/barbed wire fence in building demo because would not generate dust from dismemberment and truck loading. Need to make sure truck trips accounted for in demo though no material import/export during line construction. All material would be re-used to fill holes

Paved Areas			
Phases	Area (sf)	Asphalt	Notes
Paving	99,000	100%	From data RFI

Construction Worker & Vendor Trips:	Worker Trips	Vendor Trucks	Haul Trucks	Onsite Trucks	Vendor Truck Trip Notes	Haul truck notes	Onsite Truck notes
Phase		Vendor Truck Trips/Day	Total Haul Trucks	Haul Truck Trips/Day	Onsite Truck Trips per Day	Onsite Distance (mi)	
Onsite Truck Trip Travel					100	1	Assume 10 pick-up trucks onsite, 1 trip per hour over 10 hour work day (100 trips per day for pickup trucks). Uses MHDOT vehicle type
Pickup Truck Deliveries			2000	8			
69 kV Line Construction	12				1	7	
Demolition	20		12	6			
Site Preparation	30	4	252	64			
Grading/Excavation	196	4	1272	31			2 water trucks per day (4 one-way truck trips per day) - Quantity of water works out to 2 trucks per day during construction phase. Conservatively assume 2 water trucks per day during site prep and grading/excavation phase as well for on-site trips.
Construction	526	4	1056	5			
Paving	40		2	1			Conservatively assume 1 truck trip per day (2 total trucks = 4 trips over 20 days)
Notes:							
1. All haul truck trips use 50 mile one-way trip distance (assumes inclusive of 3,300 feet of asphalt road vehicles would travel on to reach the site).							
2. Uses default worker trip length. Assumes this is inclusive of 3,300 feet of travel on asphalt access road.							
3. Water trucks in construction equipment table included as vendor trucks to capture travel distance on-site. Water sourced from existing on-site agricultural groundwater wells.							

Operational Trips:			
	Daily Trip Rate	VMT per day	Notes
General Light Industry	8	130.4	1 worker passenger vehicle trip per day + 1 maintenance truck trip ever 2 weeks

Notes:

1. Daily trip rate includes 1 worker trip, 1 maintenance trip, and 2 water trucks occurring on same day x 2 for one-way trips.

2. Assumes worker vehicle distance for VMT calculation (14.3 miles one-day) plus a round trip over the length of the site (2 mile total).

3. Updated fleet mix to reflect frequency of worker passenger vehicle trips, maintenance truck trips, and water truck trips over a year.

	Trips per Year	Percent of Total	Fleet Mix Assigned
Worker	290	82%	41% LD11 and 41% LD12
Maintenance	26	8%	
Water Truck	30	9%	17% HHDT

Emergency Generators				
Equipment Type	Quantity	Size (HP)	Hours per day	Hours per year
Emergency Generators	2	35	24	50

Maintenance Equipment					
Equipment Type	CalEEMod Equipment	Quantity	Hours per Day	Days per Year	Notes
Maintenance pickup truck	Off-Highway Truck	1	8	26	
Maintenance bucket truck	Off-Highway Truck	1	8	4	
Solar panel wash truck/tractor	Off-Highway Truck	2	8	15	Assume operated for 5 days per week for 3 weeks per year indicated in RFI

Water Consumption		
Project Component	Land Use	Outdoor Water Consumption (gal/year)
Solar Arrays and Infrastructure	General Light Industry	180,000

Notes:

1. Assume 6,000 gallons per truck.

Water Truck Calculation

Project Area	Project Component	Project Phase	Estimated Water (gal)	# Days
Solar Fields	Compaction	Construction	573,317	40
	Dust Control	Construction	1,868,022	243
Substation and Switchyard	Compaction	Construction	1,843,394	60
	Dust Control	Construction	527,442	120

Source: 2024.10.02_Water for Compact + Dust Control Water Estimation.xlsx4,812,175463

Notes:

1.Total number of days is close to the total number of building construction (449). Calculations for the purposes of estimating on-site water truck trips; water anticipated to be sourced from onsite wells.

2. RFI indicated 5,000 gal water truck capacity.

Trucks962
Trucks per day2